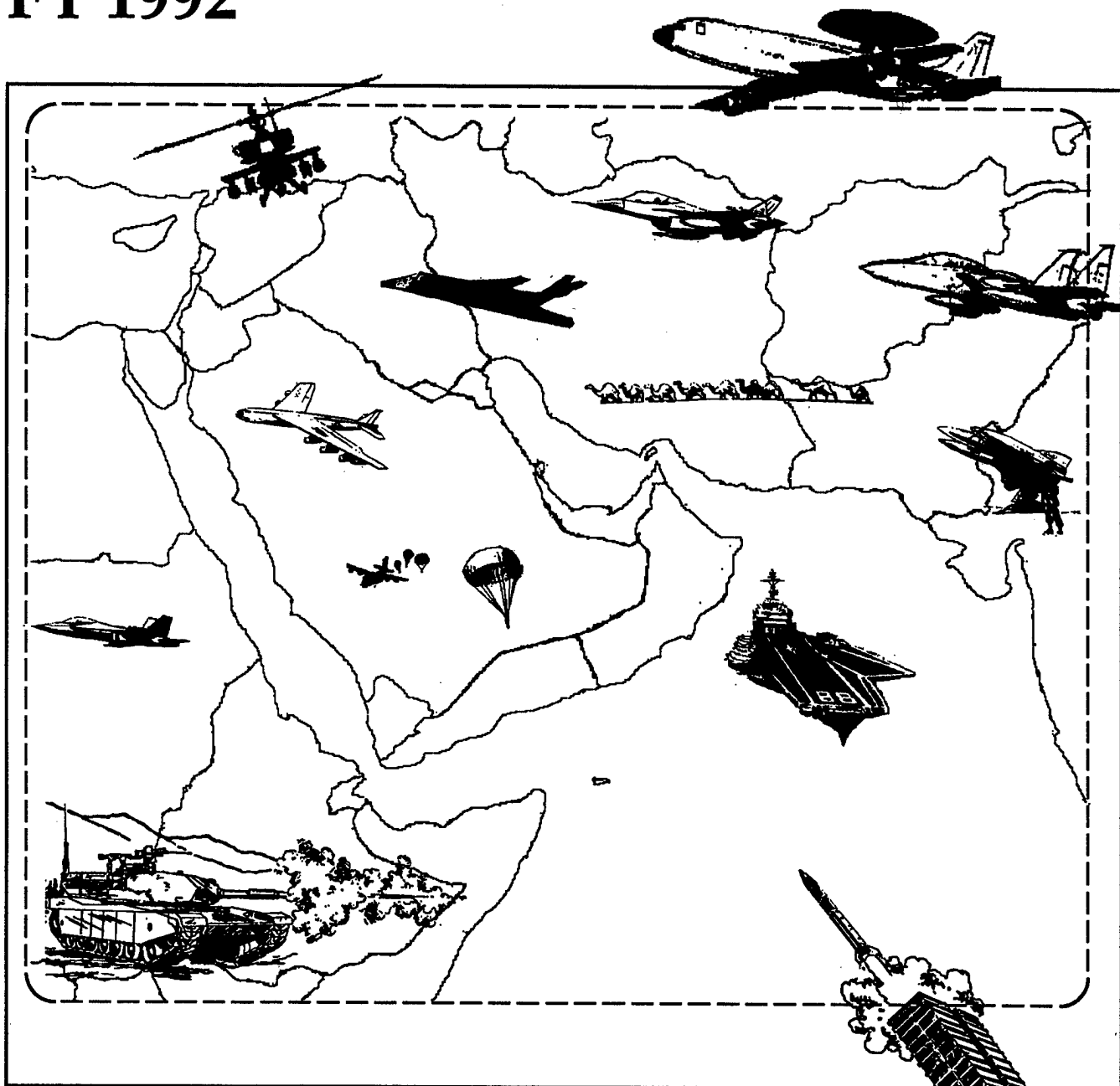


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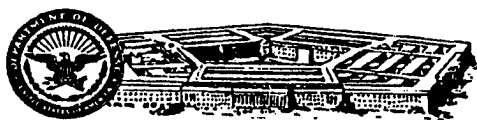
# MILITARY MANPOWER TRAINING REPORT FY 1992

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**DEPARTMENT OF DEFENSE**

**MILITARY MANPOWER  
TRAINING REPORT**

**FOR FY 1992**



**PREPARED BY**

**OFFICE OF THE ASSISTANT SECRETARY OF DEFENSE**

**(FORCE MANAGEMENT AND PERSONNEL)**

**DEPARTMENT OF THE ARMY**

**DEPARTMENT OF THE NAVY**

**DEPARTMENT OF THE AIR FORCE**

**APRIL 1991**

FY 1992 MMTR

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## EXECUTIVE SUMMARY

The Military Manpower Training Report of the Secretary of Defense is submitted to the Congress in accordance with 10 U.S.C. 138(d)(2). The Secretary of Defense is required to submit to Congress a written report each fiscal year, recommending student loads for each category of individual training for each active and reserve component of the armed forces which includes justification for, and explanation of, the student loads recommended. The FY 1992 Military Manpower Training Report specifically supports the Department of Defense request for authorization of military student training loads for each component, active and reserve, of each Service for Fiscal Years 1992 and 1993. Requested training loads are shown in Table 1.

**TABLE 1.--FY 1992 and 1993 Requested Training Loads**

	<b><u>FY 1992</u></b>	<b><u>FY 1993</u></b>
<b><u>Active Components</u></b>		
Army	68,106	66,580
Navy	60,100	59,370
Marine Corps	21,193	20,718
Air Force	<u>28,847</u>	<u>28,474</u>
Subtotal	178,246	175,142
<b><u>Reserve Components</u></b>		
Army National Guard	14,626	14,468
Army Reserve	13,597	13,095
Naval Reserve	2,336	2,476
Marine Corps Reserve	3,514	3,710
Air National Guard	2,769	2,771
Air Force Reserve	<u>1,663</u>	<u>1,698</u>
Subtotal	<u>38,505</u>	<u>38,218</u>
TOTALS	216,751	213,360

The requested loads are derived from the President's Budget for FY 1992 and the Department of Defense request for authorization of military manpower strengths, active and reserve. Military student loads authorized by Congress are subject to adjustments, as prescribed by the Secretary of Defense, to be consistent with service component end strengths authorized by Congress.

## **Definitions and Explanation of Training Loads**

This report discusses individual training and education within the Department of Defense, other than the training within operational mission units. Individual training and education, for purposes of this report, is divided into six categories:

- Recruit Training, given to enlisted entrants to the Service who have not had previous military service.
- One-Station Unit Training, an Army program which combines Recruit Training and training in certain skills into a single course.
- Officer Acquisition Training, which leads to a commission in one of the Services.
- Specialized Skill Training, needed to prepare military personnel for specific jobs in the Military Services.
- Flight Training, primarily for prospective pilots and navigators preparing them for an initial operational assignment.
- Professional Development Education, relating to the advanced professional duties of military personnel or to advanced academic disciplines to meet Service requirements.

"Training loads" are the average number of students and trainees participating in formal individual training and education courses during the fiscal year. For a full fiscal year, training loads are the equivalent of student/trainee manyears of the participants, including both those in temporary duty and permanent change of station status.

The requirement for training in a baseline force is derived from the need to replace losses in each skill required in the military force structure. Losses, through separations, promotions and other causes, are projected at various points in the future and compared to the projected inventory of trained personnel. The deficit between the requirement in each skill and the inventory becomes a demand for an output of trained personnel. A phased input of students to the training establishment is then scheduled so that trained personnel, in each skill and skill level, are available at the proper time to replace the losses in those skills. The resulting workload placed on the training establishment is the basis of the training loads addressed in this report.

The training load for each component is the measure of the amount of training required for members of that component, although some of the training will be done by other Services, in DoD schools, or in some cases by institutions outside the Department of Defense. The training of members of the Reserve Components included in the report is the formal school training provided by the active training establishment to individual members of the Reserve Components while they are on active duty for training; this is primarily training provided to non-prior service personnel entering the Reserve Components.

## **An Overview of Training Loads**

During FY 1992 and FY 1993 total requested DoD training loads will be 216,751 and 213,360, respectively. About 82 percent of these annual loads is composed of training for members of the active forces; the remaining 18 percent of these loads is training for members of the Reserve Components, while on active duty, conducted by the active training establishment.

Table 2 displays the percentage of total active force loads and the percentage of total Reserve Component loads attributable to each of the major categories of training in FY 1992 and FY 1993.

**TABLE 2.--Percent Distribution of Training Loads, FY 1992  
and FY 1993**

<u>Training Category</u>	<u>FY 92</u>		<u>FY 93</u>	
	<u>Active Forces</u>	<u>Reserve Components</u>	<u>Active Forces</u>	<u>Reserve Components</u>
Recruit Training	19%	27%	17%	25%
One-Station Unit Training (Army)	4%	12%	4%	13%
Officer Acquisition Training	9%	4%	10%	5%
Specialized Skill Training	58%	54%	60%	55%
Flight Training	4%	2%	3%	1%
Professional Development Edu	6%	1%	6%	1%
Total	100%	100%	100%	100%

The preponderant categories of training, in terms of training loads, are Recruit Training and Specialized Skill Training, both of which, along with Army One-Station Unit Training, are strongly influenced by the number of enlisted non-prior service accessions to the force. Specialized Skill Training includes Reserve Component training in programs where reservists actively train with their active duty counterparts. Active/Reserve integration is essential in providing a highly trained Reserve manpower pool from which to draw in the event of mobilization. Other types of training -- Officer Acquisition Training, for example -- are also driven by the number of new accessions to the force. Table 3 divides the requested training loads for FY 1992 and 1993 into two parts: training that is primarily accession-related, and is conducted for the purpose of turning a civilian into a qualified servicemember with a usable military skill; and other training, which, for the most part, is conducted for the purpose of preparing members in later stages of their military careers for more demanding duties.

As Table 3 shows for 1992, training primarily related to new accessions amounts to about 64 percent of all training programmed for the active forces; only about 36 percent is for subsequent training. The comparable proportions for the Reserve Components are about 85 and 15 percent. For FY 1993, training primarily related to new accessions amounts to 67 percent and subsequent training 33 percent. The comparable proportions for the Reserve Components are about 88 and 12 percent. The concentration on accession-related training demonstrates the priority the Services place on training intended to produce new servicemembers who are motivated to serve their country, amenable to discipline, and capable of productive service as members of military organizations.

**TABLE 3.--Accession-Related Training and Training Loads, FY 1992/1993**

(Thousands)

	Active <u>Forces</u>	Reserve <u>Components</u>	Total Active & <u>Reserve</u>
FY 1992			
<u>Accession-Related Loads</u>			
Recruit	30.4	9.3	39.7
One-Station Unit Training	7.3	5.2	12.5
Officer Acquisition	18.0	1.8	19.8
Initial Skill (Off & Enl)	53.6	16.1	69.7
Undergraduate Flight	<u>4.1</u>	<u>0.5</u>	<u>4.6</u>
Subtotal	113.4	32.9	146.2
<u>Other Loads</u>			
Other Specialized Skill	53.4	5.2	58.6
Other Flight	.7	0.1	.8
Professional Development	<u>10.8</u>	<u>0.3</u>	<u>11.1</u>
Subtotal	<u>64.9</u>	<u>5.6</u>	<u>70.5</u>
<u>Total Load</u>	178.3	38.5	216.8
<u>Accession-Related Loads as Percent of Total Loads</u>	64%	85%	67%
FY 1993	Active <u>Forces</u>	Reserve <u>Components</u>	Active & <u>Reserve</u>
<u>Accession-Related Loads</u>			
Recruit	29.8	9.5	39.3
One-Station Unit Training	7.0	5.1	12.1
Officer Acquisition	18.0	1.8	19.8
Initial Skill (Off & Enl)	52.4	15.7	68.1
Undergraduate Flight	<u>4.0</u>	<u>0.5</u>	<u>4.5</u>
Subtotal	111.2	32.7	143.9
<u>Other Loads</u>			
Other Specialized Skill	52.3	5.1	57.4
Other Flight	0.7	0.1	.8
Professional Development	<u>11.0</u>	<u>0.3</u>	<u>11.3</u>
Subtotal	<u>64.0</u>	<u>5.5</u>	<u>69.5</u>
<u>Total Load</u>	175.1	38.2	213.4
<u>Accession-Related Loads as Percent of Total Loads</u>	63%	86%	67%

Table 4 shows the trend in training loads. Table 5 compares training loads by the major categories of training; calculations are affected by rounding.

**TABLE 4.--Active and Reserve Training Load  
(Actuals) by Service, FY 1986 - 1990 (Thousands)**

	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89</u>	<u>FY 90</u>
<u>Active Forces</u>					
Army	73.0	69.2	68.6	72.7	71.4
Navy	67.9	66.9	68.0	64.0	71.2
Marine Corps	19.3	18.6	18.0	17.8	20.0
Air Force	<u>42.4</u>	<u>39.8</u>	<u>34.3</u>	<u>29.4</u>	<u>30.5</u>
<u>Tot Active</u>	202.6	194.5	188.9	183.8	193.1
Army NG	14.0	15.7	14.6	14.2	17.6
Army Res	11.6	13.2	12.9	12.2	15.3
Navy Res	3.0	3.0	3.0	2.7	2.3
MC Res	3.7	3.7	3.5	3.3	4.4
Air NG	2.8	2.8	2.8	2.4	2.2
Air Res	<u>1.5</u>	<u>1.8</u>	<u>1.7</u>	<u>1.5</u>	<u>1.1</u>
<u>Reserve Components</u>	<u>36.6</u>	<u>40.2</u>	<u>38.5</u>	<u>36.3</u>	<u>42.8</u>
Total DoD	239.2	234.7	227.4	220.2	235.9

**Requests by Service, FY 1988 - 1992, Thousands**

	<u>FY 88</u>	<u>FY 89</u>	<u>FY 90</u>	<u>FY 91/</u>	<u>FY 91</u>	<u>FY 92</u>
					AUTH	
<u>Active Forces</u>						
Army	82.5	80.3	79.7	74.4	66.5	68.1
Navy	69.0	65.9	67.2	66.2	59.7	60.1
Marine Corps	20.3	18.1	21.7	23.2	20.1	21.2
Air Force	<u>38.6</u>	<u>36.9</u>	<u>39.6</u>	<u>27.2</u>	<u>26.9</u>	<u>28.9</u>
<u>Tot Active</u>	210.4	201.1	208.1	191.0	173.2	178.3
Army NG	18.5	19.6	19.2	16.6	16.6	14.6
Army Res	15.1	17.2	15.4	15.3	15.3	13.6
Navy Res	2.8	3.1	3.2	3.2	3.2	2.3
MC Res	4.0	3.5	4.2	3.5	3.5	3.5
Air NG	2.5	2.9	2.9	2.7	2.7	2.8
Air Res	2.0	1.8	1.8	1.6	1.6	1.7
<u>Reserve Component</u>	<u>44.9</u>	<u>48.0</u>	<u>46.7</u>	<u>42.9</u>	<u>42.9</u>	<u>38.5</u>
Total DoD	255.3	249.2	254.8	233.9	216.9	216.8

Congress authorized 17,010 fewer student manyears than the full Active Force training load levels requested for FY 91.

**Table 5.--Active and Reserve Training Load Trends by Training Category.**  
**FY 1980 - 1993**  
**(Thousands)**

	<u>FY 80</u>	<u>FY 89</u>	<u>FY 90</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>	<u>Percent</u> <u>FY 91-92</u>	<u>Change</u> <u>FY 92-93</u>
Recruit	51.0	45.9	45.2	41.8	39.7	39.3	- 5%	- 1%
Officer								
Acquisition	16.7	20.9	20.4	20.0	19.8	19.8	- 1%	0%
Specialized								
Skill	115.5	122.2	138.8	142.3	128.2	125.6	- 10%	- 2%
Flight	6.0	7.0	7.0	5.8	5.4	5.3	- 7%	- 2%
Professional								
Development	8.0	10.7	10.4	10.3	11.1	11.3	+ 8%	+ 2%
One-Station Unit								
Training	<u>28.7</u>	<u>13.4</u>	<u>14.0</u>	<u>13.3</u>	<u>12.5</u>	<u>12.1</u>	<u>- 6%</u>	<u>- 3%</u>
Total	225.9	220.1	235.9	233.5	216.8	213.4	- 7%	- 2%

Note: Calculations are affected by rounding.

The training loads shown in Tables 4 and 5 reflect shifts in resources and training capacities to complement force plans as of the date of this year's MMTR data submission.

### **Funding for Individual Training**

Funds required to support the training in the training load request for FY 1992 and 1993 total approximately \$19.8 billion and \$19.3 billion. This amount includes pay and allowances for the students undergoing training, pay and allowances of military and civilian personnel in support of training, operations and maintenance costs, and training-related procurement and construction funded in FY 1992 and 1993. Table 6 displays total training costs for each Service.

**TABLE 6.--Funding of Individual Training**  
**by Service, FY 1992 and 1993**  
**(\$ Millions)**

	<u>Army</u>	<u>Navy</u>	<u>Marine</u> <u>Corps</u>	<u>Air</u> <u>Force</u>	<u>DoD</u>
FY 92	\$8,430.6	\$5,503.2	\$1,396.6	\$4,461.5	\$19,791.9
FY 93	\$7,939.6	\$5,489.3	\$1,378.7	\$4,486.9	\$19,294.4

The same funding is shown in Table 7 for each of the major categories of training and for related support and travel.

**TABLE 7.--Funding of Individual Training  
by Training Category, FY 1992 and 1993  
(\$ Millions)**

	<u>FY 92</u>	<u>FY 93</u>
Recruit Training	\$ 1,308.7	\$ 1,317.8
Officer Acquisition Training	522.0	531.0
Specialized Skill Training	4,809.2	4,837.8
Flight Training	2,571.4	2,517.4
Professional Dev Education	854.0	879.7
Army One-Station Unit Training	328.5	315.1
Medical Training	950.9	983.0
BOS and Direct Training Support	4,239.7	3,692.0
Management Headquarters	151.8	149.0
PCS Cost for Training	381.0	384.0
TDY Cost for Training	2,707.6	2,536.2
Reserve Component Pay and <u>Allowances</u>	<u>967.2</u>	<u>1,151.5</u>
Total	\$19,791.9	\$19,294.4

Note: Numbers may not add due to rounding.

Funding estimates are based on data contained in DoD's Defense Program (DP). The MMTR is consistent with resource estimates in the President's budget, the justification material submitted to the Congress, the Defense Plan and other internal DoD management reports.

### **Manpower In Support of Individual Training**

Individual training requires manpower to conduct and support instruction, manage military schools and training centers, maintain training bases and provide support to students, military staff members and their dependents. Chapter VIII of this report provides an analysis of military and civilian manpower in individual training. Manpower in support of individual training for FY 1992 and 1993, by the general functions it performs, is shown in the following table.

**TABLE 8.--DoD Manpower in Support of Individual Training, FY 1992  
and 1993 (End Strength, Thousands)**

		<u>FY 92</u>	
	<u>Military</u>	<u>Civilian</u>	<u>Total</u>
Training and Direct Trng Support <u>a/</u>	89.9	19.1	109.0
Base Operating Support	24.7	29.7	54.4
Major Training Headquarters	<u>1.4</u>	<u>1.4</u>	<u>2.8</u>
Total	116.0	50.2	166.2

		<u>FY 93</u>	
	<u>Military</u>	<u>Civilian</u>	<u>Total</u>
Training and Direct Trng Support <u>a/</u>	86.0	18.9	104.9
Base Operating Support	22.1	28.9	51.0
Major Training Headquarters	<u>1.3</u>	<u>1.4</u>	<u>2.7</u>
Total	109.4	49.2	158.6

a/ Includes instructors, instructional support, school/training center administration, student supervision.



Table 9 shows that the total amount of manpower in all functions of support for individual training has decreased between FY 1980 and FY 1992/1993.

**TABLE 9.--Trends, Manpower in Support of Training, FY 1980-1993**  
(Combined Military and Civilian End Strengths, Thousands)

	<u>FY 80</u>	<u>FY 92</u>	<u>FY 93</u>	<u>Percent Change</u>	
				<u>FY 80-92</u>	<u>FY 92-93</u>
Training and Direct					
Training Support	112	109	105	-2.7%	-3.8%
Base Operating Supp	71	55	51	-22.5%	-7.3%
Major Training					
Headquarters	<u>4</u>	<u>2</u>	<u>2</u>	<u>-50.0%</u>	<u>0%</u>
Total	187	166	158	-11.2%	-4.8%

Training workloads -- that is, all students trained including DoD military students, foreign students and students from other U.S. agencies -- have decreased over the same period, as Table 10 shows.

**TABLE 10.--Training Workloads, FY 1980-1993**  
(Thousands)

<u>FY 80</u>	<u>FY 92</u>	<u>FY 93</u>	<u>Percent Change</u>	
			<u>FY 80-92</u>	<u>FY 92-93</u>
239	219	216	- 8.4%	- 1.4%

### **The Necessity for Individual Training**

The primary objective of individual training is to provide the operational forces with personnel adequately trained to assume jobs in both Active and Reserve military units. Without effective training and education programs, the operational forces would be manned with personnel who are less than fully qualified for their jobs. Since the nation cannot predict when or where war may break out or count on an extended period for mobilization and training, we must have effective individual training conducted in training institutions to assure that our operational units are capable of carrying out national security missions in peace or war when called upon.

**MILITARY MANPOWER TRAINING REPORT FOR FY 1992**

# I

## INTRODUCTION

### **Training Requirements and Manpower Requirements**

Requirements for training and education of military personnel are derived ultimately from national security objectives. This Report, the Report of the Secretary of Defense to the Congress on the FY 1992 Budget, and the Defense Manpower Requirements Report, describe the progression from national security objectives to training load requirements. The Report of the Secretary of Defense explains the relationship between the threat and the forces designed to cope with the threat. The Defense Manpower Requirements Report relates the requirement for trained manpower to man the forces. The Military Manpower Training Report takes as a starting point the requirement for trained military manpower described in the Defense Manpower Requirements Report. These requirements relate to the demand placed on the military training establishment to supply trained manpower. This demand leads to the DoD request for military student training load authorizations for each component of the Military Services. The Defense Manpower Requirements Report and this Report are mutually supportive; however, the data in the two reports are not interchangeable or directly comparable. The principal reason for this difference is that the main focus of the Defense Manpower Requirements Report is upon requested strength on the last day of fiscal years (that is, end strength), whereas the main focus of the Military Manpower Training Report is upon requested student loads, a concept more comparable to average strength, or man-years, than to end strength.

### **Definition of "Individual Training and Education"**

This report addresses the "individual training and education" activities of the Department of Defense. These involve the training of individual military members in formal courses conducted by organizations whose predominant mission is training; this training is to be differentiated from training activities conducted by operational units incidental to their primary combat, combat support, or combat service support missions. Training conducted in the unit environment, the training of organized crews and operational units for the performance of specific missions, is not included in the training loads discussed in this report, but is discussed in the Defense Manpower Requirements Report. In certain categories of training, on-the-job training (OJT) in units supplements or substitutes to some extent for all or part of formal course training requirements; OJT is also not included in the training loads discussed in this report.

The purpose of individual training and education is to give individual service members the skills and knowledge that will qualify them to perform effectively in subsequent assignments as members of operational military organizations. "Individual training and education" includes all formal military and technical training and professional education conducted under centralized control, generally under the supervision of a Service training command or similar organization. The trainees and students undergoing the training or education addressed in the report include the following categories of personnel:

1. Active Force: officers, enlisted personnel, and Service Academy cadets and midshipmen.

2. Reserve Components: officers and enlisted members on active duty for initial skill or professional refresher training in formal school courses.

Training of some civilian students, prior to their entry into the Services, in such programs as ROTC, is also discussed in the report. However, training loads are properly requested only for training and education of personnel received while they are in active military status.

In general, the training discussed in this report is conducted under Major Defense Program VIII, "Training, Medical and Other General Personnel Activities," as presented in the Defense budget. Exceptions to these general rules are pointed out, where appropriate, in the body of the report.

Personnel undergoing individual training and education are classified, for manpower accounting purposes, as either trainees, students, or cadets, unless they are undergoing training while on temporary duty or temporary additional duty from their unit of assignment, or unless they are being trained while en route to new stations as transients. The term "trainees" is generally used for all enlisted personnel in Recruit Training and Initial Skill Training. "Cadets" (or "midshipmen" in the case of the Naval Academy) are members being educated at one of the Service Academies. All others receiving individual training and education are identified as "students". The distinction is not important for the purposes of this report, and the term "student" will be used where appropriate to describe members of all three classifications as well as temporary duty and transient personnel being trained.

The term "training" generally refers to instruction in military subjects either at a basic level, as in Recruit Training, or in a military or job-related technical specialty, such as pilot training or training in radar repair. "Education" generally refers to study either in more advanced subjects or in military subjects which apply to an entire Service or to the broad mission of national security, as, for example, the curriculum at the National War College. The term "training" will be used in this report to refer to individual training and education as a whole.

### **Reserve Component Description**

The Ready Reserve is the major source of manpower augmentation for the active force. It has two principal elements: the Selected Reserve and the Individual Ready Reserve/Inactive National Guard. The Selected Reserve includes three groups: (1) units organized, equipped, and trained to perform wartime missions; (2) Individual Mobilization Augmentees (IMA's) who are highly trained, skilled people designated to provide wartime augmentation to active component units on or shortly after mobilization; and (3) the training pipeline, which is composed of members of the Selected Reserve who have not completed sufficient training to be awarded a military skill designation. Training pipeline personnel may not deploy overseas upon mobilization until minimum training is completed. Selected Reservists assigned to units and IMA's train throughout the year and participate annually in active duty training. As many as 200,000 Selected Reservists may be involuntarily recalled by the President for up to 90 days, with an option for a 90 day extension, to augment active forces.

The Individual Ready Reserve (IRR) and Inactive National Guard (ING) consists of those Ready Reservists who are not in the Selected Reserve. Members of the IRR and ING have served recently in the active force or the Selected Reserve and have some period of their military service obligation remaining or have volunteered to remain beyond their statutory obligation. The majority of the IRR and ING members do not participate regularly in organized training. All members of the IRR and ING are subject to being ordered to active duty during a national emergency declared by the President or the Congress.

The Standby Reserve consists of personnel who maintain their military affiliation, but are unable to remain in a Ready Reserve status, or who are determined to be critical mobilization assets. The Retired Reserve consists of former members of the active and reserve forces who have retired. Members of the Standby and Retired Reserve do not generally participate in reserve training or readiness programs. They may be ordered to active duty by the Secretary of the military department concerned in the interest of national defense. However, standby and retired reservists who have not completed 20 years of active service may not be activated until it has been determined that there are not enough qualified members in the Ready Reserve. Retired reservists who have completed 20 or more years of active service may be ordered to active duty at any time.

### **FY 1992 Training Report and the FY 1992 Budget**

It is important to emphasize that this report, while consistent with the Department of Defense Budget for FY 1992, differs in structure from the budget justification in two major respects. Budget justifications are focused on explaining how, by whom, and why money is to be spent; budgets for training and their justifications, therefore, are prepared by the Service which conducts the training programs and must obtain funds to train personnel from other Services in addition to its own. By contrast, this report details and emphasizes the training loads of the components of the parent Service whose members are undergoing the training, and deals in less detail with resources and funds required by the Service which conducts the training. For example, Navy personnel being trained by the Air Force are treated in this report as part of the Navy military student training load, since they are being trained to fill Navy requirements. However, in budget documents, funds to conduct training for these students, who are a part of the Air Force training workload, are included in Air Force appropriation requests.

### **Definitions of Major Training Categories**

The portion of this report which discusses training loads in detail is organized into five chapters (Chapters III through VII), each of which addresses one of the major categories of training. These major categories are briefly defined below. Each chapter will more fully describe the training category and its sub-categories, the requested training loads, and the training methodology.

**Recruit Training** includes the basic introductory physical conditioning, military, and indoctrination training given to all new enlisted entrants in each of the Services. **One-Station Unit Training (OSUT)** is an Army training program which meets the training objectives of both Recruit and Specialized Skill Training in certain skills through a single course for new Active and Reserve enlisted entrants which is conducted by a single training unit. Since it includes elements of two categories of training, it is treated separately in this report.

**Officer Acquisition Training**, sometimes called pre-commissioning training, includes all types of education and training leading to a commission in one of the Services, such as the programs of the Service Academies and officer candidate/training schools. Students not in active military status, such as Reserve Officer Training Corps students, are excluded from requested loads in this report.

**Specialized Skill Training** provides officers and enlisted personnel with new or higher levels of skill in military specialties or functional areas to match specific job requirements. This category includes Army Advanced Individual Training and Navy Apprenticeship Training. Certain flight-related training, such as training of air traffic controllers and aircraft mechanics, and survival training in the Air Force, is reported under Specialized Skill Training. Officer acquisition programs are not included in Specialized Skill Training. The Marine Corps Combat Training (MCT) phase of the new Marine Battle Skills Training has been included in this category beginning in FY89.

**Flight Training** provides the individual flying skills needed by pilots, navigators, and naval flight officers to permit them to function effectively upon their assignment to operational mission units. The Service undergraduate flight training programs culminate in an officer, or an Army warrant officer, receiving "wings" and being categorized as a "designated" or "rated" officer.

The undergraduate programs do not include the major formal advanced flight training programs. Training conducted by Service advanced flight training organizations is not considered individual training and is therefore beyond the scope of this report.

**Professional Development Education** includes educational courses conducted at the higher-level Service schools or at civilian institutions to broaden the outlook and knowledge of senior military personnel or to impart knowledge in advanced academic disciplines to meet Service requirements. Training of this type is required to prepare individuals for progressively more demanding assignments, particularly for higher command and staff positions. Programs include undergraduate and graduate education and other courses not leading to a degree.

Enlisted leadership training for senior non-commissioned officers is included in Professional Development Education rather than in Specialized Skill Training to recognize its broad professional content. However, Navy leadership training, which is given to all grades of petty officers, is included in Specialized Skill Training, as is the rest of noncommissioned officer training for more junior personnel conducted by the other Services.

### **Determining Training Requirements and Training Load**

The amount and type of training to be conducted in the Department of Defense is the product of a series of calculations that is described in Appendix A to this report.

In brief, the process begins with the determination of the requirement for military personnel with specific skills to fill positions in the approved or projected force. The requirement for trained manpower must then be measured against the available inventory of trained personnel projected at various points in the future.

This comparison, made for each military skill and skill level, establishes the need for the training of personnel, on a phased basis, to fill current and projected skill shortages. The requirement for the training of personnel on a schedule calculated to maintain the skill inventory becomes the workload of the Service training establishments. It is measured in terms of the average military training student load, or "training load". The training load for a given period is not only a measure of the amount of training to be accomplished; but, adjusted to take account of the Service conducting the training, it becomes a "workload" and thus it is also a basis for establishing the requirement for resources (manpower, funds, material, and facilities) needed to support the training to be conducted by a Service.

Conceptually, the training load for a given period is the average student strength for the period, and approximates many years. The total training load is the sum of the loads for all the included individual courses. Training loads for individual courses are determined by the following factors:

1. The length of the training course.
2. The desired number of graduates, or output, of the course.
3. The number of entrants, or inputs, into the course required to obtain the desired output. This, in turn, depends on the pattern of attrition, or failures of entrants to graduate, for the course.

The training load is computed by the following formula:

$$\frac{\text{Entrants} + \text{Graduates}}{2} \times \text{Course Length (expressed as a fraction of a year)} = \text{Load}$$

This is the basic method for computing the training loads discussed in this report. However, if attrition does not occur at a uniform rate, as is frequently the case, and the rate and phasing can be specified, more complex formulas and computer simulations are used to estimate training loads.

### **Accuracy in Projecting Training Loads**

In accordance with law, training load authorizations must be requested well in advance of the period when the training is actually conducted. This year, for example, in addition to the more refined estimates of loads needed for FY 1992, load authorizations must be requested for the fiscal year which begins more than a year after the request is submitted -- that is, loads for FY 1993, beginning October 1, 1991, must be requested in the spring of 1991. This statutory requirement implies the capability to predict future training loads with precision. In actuality, while loads for some long-leadtime programs, such as the Service Academies, can be predicted with considerable accuracy, there are many uncertainties in projecting training loads. Some of the causes of uncertainty are:

1. Unanticipated changes in end strength levels and force structure, requiring readjustment of the skill inventory and the mix of courses in the training load.

2. Unpredictability of individual decisions to enlist, re-enlist, or retire; these factors may lead to unanticipated changes in the skill inventory, requiring changes in the composition or size of training loads, or to shifts of portions of the training load from one fiscal period to the following period.

3. Changes in attrition rates and patterns, causing unprogrammed fluctuations in training rates and loads.

By forecasting training needs as far as possible into the future and continuously reviewing and adjusting training inputs and loads, the Services are able to adapt the training system to changing conditions. However, it should be clear that extended projections are subject to error; adjustments are inevitable and, in fact, necessary for good management.

### **Training Load Request by Component and Category**

The tables on the following two pages display in category detail the requested training loads for FY 1992 and FY 1993. The loads for each period are displayed by component and by each of the major categories of training.



**TABLE I-1--Military Training Student Loads, Fiscal Year 1992, By Component and Major Training Category**

	Recruit Training	One-Station Unit Training	Officer Acquisition Training	Specialized Skill Training	Flight Training	Professional Development Education	Total
<b>Active Forces</b>							
Army	8,811	7,307	6,305	41,247	1,011	3,425	68,106
Navy	10,429	-	6,392	39,344	1,441	2,494	60,100
Marine Corps	7,600	-	401	11,318	580	1,294	21,193
Air Force	3,573	-	4,886	15,050	1,778	3,560	28,847
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Subtotal	30,413	7,307	17,984	106,959	4,810	10,773	178,246
<b>Reserve Components</b>							
Army Reserve	3,137	1,630	1,506	7,154	113	57	13,597
Army National Guard	3,218	3,553	99	7,460	221	75	14,626
Naval Reserve	653	-	15	1,640	0	28	2,336
Marine Corps Reserve	1,500	-	151	1,802	0	61	3,514
Air Force Reserve	330	-	16	1,196	65	56	1,663
Air National Guard	470	-	0	2,033	217	49	2,769
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Subtotal	9,308	5,183	1,787	21,285	616	326	38,505
<b>Total</b>	39,721	12,490	19,771	128,244	5,426	11,099	216,751

**TABLE I-2.--Military Training Student Loads, Fiscal Year 1993, By Component and Major Training Category**

	Recruit Training	One-Station Unit Training	Officer Acquisition Training	Specialized Skill Training	Flight Training	Professional Development Education	Total
Active Forces							
Army	9,052	6,971	6,564	39,552	1,008	3,433	66,580
Navy	10,146	-	6,271	38,959	1,455	2,539	59,370
Marine Corps	7,110	-	401	11,346	573	1,288	20,718
Air Force	3,503	-	4,792	14,856	1,586	3,737	28,474
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Subtotal	29,811	6,971	18,028	104,713	4,622	10,997	175,142
Reserve Components							
Army Reserve	2,970	1,635	1,506	6,822	102	60	13,095
Army National Guard	3,221	3,505	99	7,324	242	77	14,468
Naval Reserve	799	-	15	1,634	-	28	2,476
Marine Corps Reserve	1,704	-	145	1,800	-	61	3,710
Air Force Reserve	330	-	16	1,222	74	56	1,698
Air National Guard	472	-	-	2,044	206	49	2,771
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Subtotal	9,496	5,140	1,781	20,846	624	331	38,218
Total	39,307	12,111	19,809	125,559	5,246	11,328	213,360

## II

### TRAINING PATTERNS

#### General Description

The development of servicemembers of all components through formal training, education, and practical experience generally follows a common pattern. New servicemembers (or, in the case of some Officer Acquisition Training, prospective servicemembers) first receive training designed to develop the basic attributes of all members of their Service. In most cases, the graduate of the initial training is then taught the skills required for a military job at the lowest skill level. Servicemembers who do not remain beyond their initial enlistments or obligated terms of service do not, in most cases, receive additional formal training. Those who remain, the career members, will further develop their military knowledge and technical skills through experience in military jobs interspersed with training or education needed to prepare them for more responsible positions. During their terms of service, military personnel are also encouraged, as their military assignments may permit, to improve themselves through off-duty and voluntary education programs. This combination of job experience, training, and education is essential to the development of a military force that is capable of carrying out the national security mission.

Enlisted personnel usually work in relatively specialized skill fields, whereas the duties of officers, particularly of those in the career force, call for broader expertise. For these reasons, the training and education patterns of officers and enlisted personnel differ, and will be discussed separately in the following sections of this chapter.

In addition to training members of the active forces, the Service training establishments also train members of the Reserve Components. Reserve Component training, as part of individual training and education, involves Reservists and Guardsmen who are on active duty for formal school training. It does not include training of Reserve Component members provided under the following circumstances:

- Training received by individuals while on extended active duty serving with active component (this training is included in active force aggregates);
- On-the-job (OJT) Training conducted by the Reserve Components themselves;
- Training received on annual active duty training tours, except if provided through courses conducted by the active training establishment;
- Any training received while the individual is not in an active military status; as a minor exception, some Reserve and Guard technicians attend military schools in Civil Service status.

Training of members of the Reserve Components will comprise 18 percent of all individual training and education in FY 1992 and FY 1993. This reflects DoD's overall manpower policy of increasing the peacetime reserve strengths relative to the active force strength.

## Officer Training Patterns

Each Service has developed career patterns to prepare its officers to assume progressively higher command and staff responsibilities. These career patterns are composed of operational assignments, during which the officers learn their professions through experience, and periodic individual training and education, which provide them with knowledge and skills needed for progressively more demanding subsequent assignments.

Officer training and education can be divided generally into three types. First, each Service maintains a system of professional military education that is progressive in nature. This education is related more to the increasing responsibilities associated with career progression to more senior grades than to the individual's current assignment or specialty. It is primarily the study of officership and the command and staff knowledge required of all professional military officers. The second type of education and training includes the many specific skill-producing courses that are conducted to enable the officer to perform immediately upon assignment to a specialized or functional area. These courses vary in length from a few days to several months. They present, for the most part, strictly job-oriented training, and are often in the nature of orientation or refresher courses. Third, the Services also provide selected officers with advanced academic education, either in-house or at civilian institutions, to meet specific requirements for officers educated in technical, scientific, engineering, and managerial fields. Officers also participate in a variety of other educational programs, many on a part-time basis, usually with the student sharing in the cost.

Training and education for career officers, involving one or more of the types of training and education described above, follow the general patterns outlined in the following paragraphs. The patterns vary among the Services to some extent, and not all officers will participate in all of the schooling described. The number of officers participating in schooling becomes progressively smaller, and participation more selective and demanding, as officers move through their careers.

Non-career officers (those who may be expected to serve only an initial tour of active duty) generally receive training only at the entry level. In some cases, they may receive skill-oriented courses such as pilot training, which is lengthy and results in a commensurately longer active duty obligation, or training in other specialties such as maintenance or communications.

Entry Level Training. Upon entry, the young officers' initial training is Service-oriented and intended to prepare them for duties at the lowest operational level -- company, squadron, or ship. The newly commissioned Army officers will attend a basic course conducted by the particular branch of the Army to which they are assigned, such as infantry, armor or artillery. Navy ensigns are usually assigned to school training based on their warfare specialty. All newly commissioned Marine officers attend The Basic School. A newly commissioned officer in the Air Force may go to Flight Training or training in a technical specialty.

Career Training. After some operational experience, the career officer requires further professional military education to prepare for service at the next level -- for example, as a unit commander or a headquarters staff officer. In the Army, this entails a return to branch school for more advanced training. Navy officers at this stage in their careers may attend a school in a specialty appropriate to their future assignments. A Marine Corps officer would normally attend the Amphibious Warfare School. An Air Force officer could be selected for the Squadron Officer School.

To satisfy Service requirements and as a further step in professional development, some officers are selected for participation in an advanced academic educational program at a civilian institution or one of the two Service technical institutes, the Naval Postgraduate School and the Air Force Institute of Technology.

Intermediate Service Schools. As officers progress (between six and 16 years of service, depending on Service criteria) they are ready for the next, or command and staff, level of professional military education in preparation for assuming higher responsibilities. Attendance is competitive, as not all officers are selected to attend. Each Service has such a course; the Armed Forces Staff College, a joint school, is also conducted at this level. Each Service has its own emphasis with regard to this schooling because of its pattern of missions; these differences are reflected in the school curricula.

Senior Service Colleges. Subsequent to the intermediate years, little technical training is provided. The final level of professional military education is that of the Senior Service Schools -- the war colleges -- for which attendance is highly selective. The Army, Navy, and Air Force each has a war college. In addition, there is the National Defense University, consisting of the National War College, the Industrial College of the Armed Forces, and the Capstone course for general officers. Officers graduating from the Senior Service Schools have the academic foundation required for command and staff positions at the highest level. The different curricula of these schools reflect the differing patterns of missions among the Services. In some instances Reserve officers are able to attend Senior Service Schools in residence. The schools, generally, also offer a non-resident course which consists of correspondence studies and resident phases.

### Enlisted Training Patterns

Individuals entering upon an initial enlistment are provided Recruit Training that introduces them to military life. Following this indoctrination training, they will follow one of three possible avenues dictated by their respective component's requirements:

1. Initial Skill Training, which prepares the enlistee for an initial duty assignment, or
2. Direct duty assignment on the basis of a skill already acquired in civilian life, or
3. Direct assignment to first duty unit for on-the-job training (OJT).

The Army One-Station Unit Training (OSUT) program is a variation of the first of these three avenues, since it combines Recruit and Initial Skill Training into a single course, followed by assignment to an operational unit. About 31 percent of the FY 1992 and 34 percent of the FY 1993 Active Army entrants to initial skill enlisted training will be trained under the OSUT. For the Reserve Components, about 34 percent of the FY 1992 and 34 percent of the FY 1993 Army entrants to initial skill enlisted training will receive OSUT.

The expected distribution of Active Recruit Training graduates in FY 1992/1993 is shown in Table II-1.

**TABLE II-1.--Disposition of Active Recruit Training Graduates  
in FY 1992/1993**

	<u>Army</u>	<u>Navy a/</u>	<u>Marine Corps</u>	<u>Air Force</u>
To Initial Skill Training	99%	66%	94%	96%
To Duty Assignment (Civilian-Acquired Skill)	1%	*	*	1%
To Duty Assignment (On- the-Job Training)	<u>0%</u>	<u>34%</u>	<u>6%</u>	<u>3%</u>
	100%	100%	100%	100%

\*Less than 1 percent.

a/ 33% of Navy Recruit Training graduates attend short "Apprenticeship Training" courses (carried under Initial Skill Training in this report) as a preliminary to further training on the job.

As the table indicates, most enlisted personnel receive formal Initial Skill Training to provide them with a basic military skill. The combination of Recruit Training and Initial Skill Training (or Army One-Station Unit Training) is the foundation of the development of enlisted personnel, because it turns civilians into servicemembers who are qualified to fill positions in Active or Reserve units.

Due to the decrease in Air Force accessions in recent years -- down from a high of 70,100 in FY 1984 -- and the increase in complexity of Air Force systems and jobs which require formal training, the percent of active duty recruit graduates going to technical school increased to 96 percent in FY 1992.

Other than for on-the-job training in the work environment, enlisted personnel normally receive no further formal skill training beyond the training previously described during their initial enlistments. The major exception is Navy training, conducted by fleet training centers, in such shipboard duties as firefighting.

Subsequent to reenlistment, individuals may be selected for attendance at a journeyman level course in their specific occupational areas. This training emphasizes the appropriate military applications for the skills being taught. In most cases, however, enlisted personnel advance in their skill areas through experience gained on the job and without extensive additional formal training. Some enlisted personnel are given the opportunity to attend NCO professional development training programs which prepare them for increased supervisory and leadership responsibilities.

Active Navy training facilities are being opened on weekends to make classroom and training facilities accessible to the Selected Reserve. This Readiness Center Concept has been approved for implementation nationwide. This initiative will concentrate resources (technical training equipment, training devices, and instructors) to improve the overall quality of Reserve training. Skill progression courses are broken down into modules that can be accomplished during drill periods. Exportable training and course modules will remove many barriers to improving readiness in the Naval Reserve. Now all formal schools or training required for mobilization are available to the reservist.

Normally, few enlisted personnel attend regularly programmed specialized courses after mid-career. There are instances, of course, where new equipment or systems are introduced into a Service, and senior level enlisted personnel are formally trained in operation and maintenance techniques. Selected Active and Reserve senior enlisted personnel attend schools, such as the Army's Sergeants Major Academy and Air Force Senior NCO Academy, which are, on the NCO level, similar in purpose to the Intermediate and Senior Service Schools in the officer education system.

### III

## RECRUIT TRAINING AND ARMY ONE-STATION UNIT TRAINING

### General Description

Recruit Training is the basic indoctrination training given to enlisted personnel of each Service upon their initial entry into military service. Recruit Training provides an orderly transition from civilian to military life, motivation to become a dedicated and productive member of the Service, and instruction in the basic skills that are required by all members of the Military Service involved. Training in each of the Services emphasizes discipline, observance of military rules, social conduct, physical conditioning, and the building of self-confidence and pride in being a member of the service. Beyond these common objectives, Recruit Training in each Service is designed to meet the particular training requirements of that Service which are a reflection of the Service mission. Graduates of Recruit Training have the basic knowledge and skills required to qualify them, after formal or on-the-job training in a particular skill, for service in an operational unit of the parent Service.

Army One-Station Unit Training (OSUT) is unique in that it combines Recruit Training and Initial Skill Training in certain skills into a single course conducted by a single training unit at a single training installation. OSUT therefore includes elements of two major training categories; consequently, it is treated separately at the end of this chapter. OSUT training loads are not included within the Recruit Training loads displayed in this chapter.

### Recruit Training Loads

The training loads for FY 1980 through FY 1993 for each component of each Military Service are shown in Table III-1 on the following page.



**TABLE III-1.--RECRUIT TRAINING LOADS, FY 1980-1993 a/**

<b>Service Component</b>	<b>FY 80</b>	<b>FY 86</b>	<b>FY 87</b>	<b>FY 88</b>	<b>FY 89</b>	<b>FY 90</b>	<b>FY 91</b>	<b>FY 92</b>	<b>FY 93</b>
<b>Army b/</b>									
Active	10,453	11,288	11,481	10,091	11,102	11,559	8,762	8,811	9,052
Reserve	2,339	3,442	3,487	3,528	3,405	4,004	3,950	3,137	2,970
Natl Guard	2,661	3,257	3,972	3,559	3,516	4,058	3,567	3,218	3,221
<b>Navy</b>									
Active	13,597	14,726	14,564	14,211	12,045	10,085	11,670	10,429	10,146
Reserve	290	1,227	1,350	1,017	1,001	1,029	746	653	799
<b>Marine Corps</b>									
Active	10,166	7,494	7,420	7,689	7,572	7,605	7,110	7,600	7,110
Reserve	1,623	1,930	1,879	1,818	1,774	1,775	1,681	1,500	1,704
<b>Air Force</b>									
Active	8,872	7,335	6,287	4,684	4,713	4,308	3,503	3,573	3,503
Reserve	297	412	401	341	313	283	330	330	330
Natl Guard	677	856	725	470	472	469	469	470	472
<b>DoD</b>									
Active	43,088	40,843	39,752	36,675	35,432	33,557	31,045	30,413	29,811
Res/Gd Tot	7,887	11,124	11,814	10,733	10,481	11,618	10,743	9,308	9,496
DoD Total	50,975	51,967	51,566	47,408	45,913	45,175	41,788	39,721	39,307

a/ In this table and in all subsequent tables in this report, training loads for the years prior to and including FY 1990 data are actual, FY 1991 and subsequent year data are estimated.

b/ Data do not include Army One-Station Unit Training loads.

## **Recruit Training**

The following table displays for Recruit Training the average training loads for each year from FY 1990 to 1993 and, for FY 1992 and 1993, the number of entrants (input) and number of graduates (output). Data are shown separately for each component of each Service.

**TABLE III-2.--Training Inputs, Outputs, and Loads, Recruit Training**  
**FY 1990 - 1993**

<u>Service</u> <u>Component</u>	<u>FY 90</u> <u>Load</u>	<u>FY 91</u> <u>Load</u>	<u>Input</u>	<u>FY 92</u> <u>Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93</u> <u>Output</u>	<u>Load</u>
<b><u>Army</u></b>								
Active	11,559	8,762	56,840	54,299	8,811	58,355	55,807	9,052
Reserve	4,004	3,950	20,046	19,156	3,137	18,972	18,136	2,970
Natl Guard	4,058	3,567	20,578	19,646	3,218	20,589	19,668	3,221
<b><u>Navy</u></b>								
Active	10,085	11,670	69,746	63,818	10,429	67,851	62,084	10,146
Reserve	1,029	746	4,355	3,995	653	5,342	4,888	799
<b><u>Marine Corps</u></b>								
Active	7,605	7,110	33,645	29,765	7,600	31,465	26,938	7,110
Reserve	1,775	1,681	6,600	5,768	1,500	7,500	6,553	1,704
<b><u>Air Force</u></b>								
Active	4,308	3,503	30,600	28,458	3,573	30,000	27,900	3,503
Reserve	283	330	2,844	2,604	330	2,844	2,604	330
Natl Guard	469	469	3,971	3,772	470	3,994	3,794	472
<b><u>DoD</u></b>								
Active	33,557	31,045	190,831	176,340	30,413	187,671	172,729	29,811
Gd/Res	<u>11,618</u>	<u>10,743</u>	<u>58,394</u>	<u>54,941</u>	<u>9,308</u>	<u>59,241</u>	<u>55,643</u>	<u>9,496</u>
DoD Total	45,175	41,788	249,225	231,281	39,721	246,912	228,372	39,307

Each of the Services conducts training for women recruits that is similar in concept to Recruit Training for males. The training syllabi are essentially the same for males and females. In the Navy and Marine Corps, male and female Recruit Training is collocated but not integrated. The major difference between these male and female courses is that women recruits generally receive less training in combat oriented skills. The de-emphasis on combat skills in the Marine Corps causes the length of training for women to be somewhat shorter.

## **Rationale for Recruit Training**

The underlying philosophy of Recruit Training in each of the Services is that the demands of military service are fundamentally different from those of civilian life. Military service requires a high level of discipline and physical fitness, a homogeneity of outlook, and an ability to live and work as part of a highly structured organization. There are few parallels in civilian society to the demands of military service. Each recruit, therefore, must be transformed into a member of the military team in order to function effectively in the military environment. The attitudes, habits, and basic skills formed in Recruit Training are the foundation of a cohesive military organization. Later training provides the skills and knowledge needed for specific jobs; Recruit Training shapes the civilian entrants into dedicated members of their Military Services with the potential for further development.

The major determinants of Recruit Training loads are the total number of people entering service who must receive Recruit Training (input), the length of the training course, and projected patterns of attrition. Course length and attrition are discussed later in this chapter. The following two sections discuss inputs: first, inputs of active duty personnel, and second, inputs of members of the Reserve Components on active duty for initial training.

### **Active Duty Input**

The annual recruiting objective for active duty enlistees without prior military service is a function of the following factors:

1. Current enlisted trained strengths.
2. Number of enlisted personnel currently in training.
3. Projected enlisted losses through separations or other reasons (e.g., desertion, death, acceptance of a commission, retirement, etc.).
4. Projected prior-service enlistments -- that is, the return from civilian life of former service-members.
5. The projected requirement for trained enlisted personnel.

"Trained strength" is the number of personnel required to fill "structure" spaces (i.e., positions in military organizations that require specific grades and skills) and individual "pipeline" spaces, such as transients en route between assignments. The Defense Manpower Requirements Report contains a full discussion of how military manpower requirements are determined. The projected trained strength requirement is compared with the projected trained strength inventory to forecast future skill and strength imbalances. Future shortages that are not expected to be satisfied either by prior-service enlistees or servicemembers currently in skill training courses determine the training output needed to man the force with trained personnel. To determine the necessary input to achieve this output, allowance must be made for course attrition, the number of students entering a course of instruction who fail to complete it. The total input requirement must, therefore, be increased to compensate for expected attrition losses.

The optimal leveling of monthly inputs to obtain the most efficient use of training staff personnel and training facilities is a continuing goal. However, the phasing of inputs may at times be varied in order to take advantage of the best recruiting periods for maintaining quality and quantity.

Historically, June through September and January have been the most productive recruiting months, reflecting behavioral patterns that are related to the civilian academic calendar. Enlistments increase (1) shortly after high school graduation, (2) when peers return to school in the fall, and (3) after the results of the first term academic work are announced.

The Services must be able to accept most prospective enlistees at the time they are ready to enter service. Requiring enlistees to enter military service in phase with requirements and on an even-flow basis would result in the loss of many potential enlistees to other sources of employment. Accepting enlistees as they become available, however, requires a training structure capable of accommodating peak surges of enlistments.

### **Reserve Component Input**

Persons enlisting in the National Guard and Reserve forces without active duty experience require the same Recruit Training as active duty enlistees, and for the same reasons. Recruit Training loads for the Reserve Components are based on the same factors as active force loads. Guard and Reserve trainees, while in Recruit Training, are mingled with active duty trainees in units so that their training is identical.

Reserve Component recruits form a significant part of the workload of the active Recruit Training establishment. Recruit Training for the Reserve and Guard will account for 23 percent of all DoD Recruit Training in FY 1992 and 24 percent in FY 1993. This is an increase from 16 percent in FY 1980. Reserve Component training accounts for 42 percent of all Army One-Station Unit Training programmed in the Department of Defense for FY 1992 and 42 percent in FY 1993.

The planning considerations for Reserve Component personnel are essentially similar to those for the active force; detailed phasing of this training is complicated, however, by the additional consideration of civilian employment or school commitments for these personnel. For this reason, a pool of personnel who have been enlisted but who have not yet been able to attend initial training is normal. Effort is made to insure that this backlog is kept within a reasonable size.

### **Course Length and Course Content**

Enlisted training loads depend not only upon the numbers of entrants but also on the extent of skills required of entering enlisted personnel by each Service. Enlisted personnel attain those skills in Recruit Training and in Specialized Skill Training. Specialized Skill Training is discussed in a subsequent chapter. Recruit Training course lengths are determined in part by how much of the required training is to be provided during the Recruit Training phase and how much is to be deferred to later training. The four Services, because of differences in their missions, take somewhat different approaches in establishing the content and length of their Recruit Training courses.

A split training option is available to the Reserve Components. This program normally separates recruit training from specialized skill training. This option is limited to enlisted entrants who are timeconstrained from attending all their required training in one block by either educational pursuits or seasonal employment. The service member attends unit drill after completing recruit training and normally returns to active duty within one year to complete skill training.

Recruit Training in each of the Services covers four areas: (1) some processing and testing; (2) introduction into Service life; (3) instruction in military courtesy, discipline, and hygiene; and (4) fundamental military-related training involving physical fitness, military drill, and self-defense. In addition, each Service provides training in military skills that should be possessed by all, or almost all, members of that Service. The degree to which these Service-wide required skills exist differs widely among the Services. This factor accounts for most of the differences in course content and, therefore, course length.

The length of the standard Recruit Training course in each Service is shown in the following table:

TABLE III-3.--Recruit Training Course Lengths, FY 1992  
and FY 1993 (Weeks)

	<u>Army</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>
FY 92	8.0	8.0	11.0	6.0
FY 93	8.0	8.0	11.0	6.0

Army and Marine Corps Recruit Training differ from the Air Force and Navy programs because all recruits are given intensive physical conditioning and instruction in basic ground combat skills, including the use of individual weapons. These Services subscribe to the view that all enlisted personnel must achieve a basic level of qualification in ground combat skills, and their Recruit Training curricula provide a common core of training in these skills.

In FY 1985 the Marine Corps increased female recruit training from 48 training days to 56 training days. Since women Marines serve in many different units and military occupational specialties, their exposure to danger in a hostile environment cannot be precluded. Consequently, female recruit training was increased in length to provide training in defensive techniques and operations.

The Air Force is able to accomplish Recruit Training in six weeks because the students continue with a phased military training program during Initial Skill Training. This training is performed outside the normal eight hour or classroom day. Course content concentrates on indoctrination subjects. Relatively little training in Service-wide skills is provided, since there are few common skills needed by all Air Force enlisted personnel. In addition to subjects oriented toward indoctrinating recruits to military life, the Navy course includes phases designed to prepare them for conditions in a fleet environment. The Navy must be sure that recruits learn to live, work, and fight in restricted space such as they will find on board ship, often close to complex machinery and weapons.

The average length of time spent in recruit status in any of the Services may be longer than the standard course lengths discussed above. Some recruits fall behind their peers because of illness. Others require remedial training. If this cannot be accomplished by additional instructional hours the recruit may be sent to a special training unit or recycled to a following class to repeat a portion of the course.

The common objective of transforming a civilian into a disciplined servicemember tends to set a floor under the length of Recruit Training in each of the Services. Relatively few recruits have had much experience with life in a disciplined environment, been separated from their families and friends, or subjected to the stresses imposed by military life. Compensating for these factors takes not only training but also time. A minimum of six weeks in Recruit Training appears necessary to accomplish this objective alone in any of the Services. Greater amounts of time are required for those Services that must provide extensive training in required common skills.

Enlisted members of the Reserve Components without prior service receive the same basic qualification training as active service members. Each non-prior service enlistee in the Reserve Components undergoes, as a minimum, the equivalent of twelve weeks of active duty training. This is accomplished by sending the enlistee through recruit training and in some cases on to initial skill training. Many Army Guardsmen and Reservists are provided similar training in certain skills through One-Station Unit Training.

### **Attrition in Recruit Training**

A final factor in the computation of loads is the projection of the rate and timing of attrition. Recruits may fail to complete training for medical reasons, inability to absorb the instruction, lack of motivation, disciplinary problems, or a variety of administrative causes, such as discharge for fraudulent enlistment or family hardship. Table III-4 shows projected attrition losses for FY 1992 and FY 1993.

**TABLE III-4.--Recruit Training Attrition Projections, FY 1992  
and FY 1993 (Active and Reserve Combined)**  
(Percent)

	<u>Army</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>
FY 92	4.4%	9.0%	9.4%	7.1%
FY 93	4.4%	9.0%	9.4%	7.1%

The timing of attrition varies from case to case. In the case of slow learners or individuals who have difficulty in adjusting to military life, trainees usually are reentered or given special instruction; those who do not respond adequately may not become attrition losses until late in the course.

## **Army One-Station Unit Training**

The Army's One-Station Unit Training (OSUT) program combines Recruit Training and Initial Skill Training for certain skills into a single continuous course. Consequently, this report treats OSUT separately rather than arbitrarily breaking it into two segments.

OSUT loads for FY 1987 through FY 1993 are shown in the following table.

**TABLE III-5.--OSUT Training Loads, FY 1985-1992**

<u>Service Component</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89</u>	<u>FY 90</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
<u>Army</u>							
Active	10,223	8,099	9,018	8,337	7,687	7,307	6,971
Reserve	1,960	1,225	1,179	1,835	1,994	1,630	1,635
Natl Guard	<u>4,505</u>	<u>4,154</u>	<u>3,211</u>	<u>3,846</u>	<u>3,637</u>	<u>3,553</u>	<u>3,505</u>
Res/Gd Tot	<u>6,465</u>	<u>5,379</u>	<u>4,390</u>	<u>5,681</u>	<u>5,631</u>	<u>5,183</u>	<u>5,140</u>
DoD Total	16,688	13,478	13,408	14,018	13,318	12,490	12,111

OSUT training load data for FY 1990 through FY 1993 are shown in Table III-6.

**TABLE III-6.--Training Inputs, Outputs, and Loads, OSUT  
FY 1990 - 1993**

<u>Service Component</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<u>Army</u>								
Active	8,337	7,687	27,432	25,120	7,307	26,522	24,342	6,971
Reserve	1,835	1,994	6,781	6,234	1,630	6,778	6,231	1,635
Natl Guard	3,846	3,637	16,758	15,696	3,553	16,348	15,289	3,505
Gd/Res Tot	<u>5,681</u>	<u>5,631</u>	<u>23,539</u>	<u>21,930</u>	<u>5,183</u>	<u>23,126</u>	<u>21,520</u>	<u>5,140</u>
DoD Total	14,018	13,318	50,971	47,050	12,490	49,648	45,862	12,111

In FY 1992, about 33 percent and FY 1993 31 percent of active Army entrants to Recruit Training and in FY 1992 37 percent and FY 1993 37 percent of Reserve Component entrants to Recruit Training will be trained under OSUT. OSUT training loads will decrease approximately 11 percent from FY 1990 to FY 1992 and 14 percent from FY 1990 to FY 1993.

In FY 1992 and FY 1993 there will be 39 different courses in OSUT that relate to Initial Skill Training. In general, OSUT requires less training time than the separate Recruit Training and Initial Skill Training courses that it replaced. Table III-7 shows training time for OSUT courses.

TABLE III-7.--OSUT Training Time, FY 1990-1993

<u>Skill Area</u>	<u>Training Time (Weeks)</u>			
	<u>FY 90</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
Infantry a/	14.3	14.3	14.3	14.3
Artillery	13.0	13.0	13.0	13.0
Armor	14.0	14.0	14.0	14.0
Engineer	13.0	13.0	13.0	13.0
Military Police	17.0	17.0	17.0	17.0
Chemical b/	20.0	20.0	20.0	20.0

a/ 11M soldiers require an additional 3 weeks of training for heavy vehicle track qualification.

b/ CG, TRADOC directed implementation of Chemical OSUT in FY90.

The time that would be required to complete Recruit Training and the Initial Skill Training in separate courses for these skills would be about 4 weeks longer, including the time required to move the trainee from one training organization to another. The shorter OSUT course lengths provide a significant savings in trainee manyears and, consequently, in trainee pay, allowances, and support costs. Moreover, the Army's extensive tests of OSUT indicate that the quality of OSUT graduates is generally as good as the quality of personnel trained under the longer two-course training system.



## IV

### OFFICER ACQUISITION TRAINING

#### General Description

Officer Acquisition Training consists of training and education programs leading to a commission in one of the Military Services. These programs fulfill the need both for junior officer entrants into the career force and for non-career junior officers in the force structure. Officer Acquisition Training programs produce officers for both the active forces and the Reserve Components.

#### Excluded ROTC and Health Professions Acquisition Programs

The total training loads in Table IV-3 on the following page do not include two types of Officer Acquisition Training: the Army, Navy, and Air Force Reserve Officers Training Corps (ROTC) programs and the Armed Forces Health Professions Scholarship program. ROTC and Health Professions Scholarship students are not in active military status, whereas students who make up the training loads discussed in this report are either members of the active forces or members of the Reserve Components being trained on active duty by the active establishments. Although these two programs are not included in the requested training loads, they are discussed in this chapter to provide a complete account of Officer Acquisition Training. The following tables show the number of participants in these programs in the period FY 1990 through 1993.

TABLE IV-1.--Average Enrollees, Senior ROTC Programs, FY 1990-1993

<u>Service</u>	<u>FY 1990</u>	<u>FY 1991</u>	<u>FY 1992</u>	<u>FY 1993</u>
Army	59,099	47,215	46,294	47,095
Navy	9,218	8,650	8,416	8,261
Air Force	<u>18,709</u>	<u>15,013</u>	<u>13,642</u>	<u>14,232</u>
DoD Total	87,026	70,878	68,352	69,588

TABLE IV-2.--Health Professions Scholarships, FY 1990-1993

<u>Service</u>	<u>FY 1990</u>	<u>FY 1991</u>	<u>FY 1992</u>	<u>FY 1993</u>
Army	1,440	1,471	1,499	1,501
Navy	1,243	1,237	1,240	1,240
Air Force	<u>1,315</u>	<u>1,370</u>	<u>1,380</u>	<u>1,497</u>
DoD Total	3,998	4,078	4,119	4,238

The figures shown above for Health Professions Scholarships are actuals for FY 1990; the FY 1991, FY 1992 and FY 1993 figures are those currently authorized by DoD to each Service from the total of 5,000 authorized scholarships.

Junior ROTC is a program designed to develop leadership qualities, good citizenship, and an understanding of the basic elements of national security among high school students. Despite its name, it is not an officer acquisition program, since it does not result in a commission and its participants have no military obligation whatsoever. Junior ROTC is not included within training loads covered by this report.

**TABLE IV-3.--Total Officer Acquisition Training Loads, FY 1980-1993**

<u>Service</u> <u>Component</u>	<u>FY 80</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89</u>	<u>FY 90</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
<u>Army</u>									
Active	4,741	7,217	5,741	6,407	6,853	6,423	6,370	6,305	6,564
Reserve	5	125	1,375	1,388	1,177	1,758	1,380	1,506	1,506
Nat'l. Guard	42	79	81	113	123	155	155	99	99
<u>Navy</u>									
Active	5,661	6,566	6,280	6,415	6,546	6,631	6,532	6,392	6,271
Reserve	29	0	0	68	68	15	15	15	15
<u>Marine Corps</u>									
Active	249	327	433	311	364	358	401	401	401
Reserve	224	207	243	272	247	187	135	151	145
<u>Air Force</u>									
Active	6,032	5,974	5,512	5,283	5,526	4,915	4,970	4,886	4,792
Reserve	10	14	15	20	20	8	15	16	16
Nat'l. Guard	0	0	0	0	0	0	0	0	0
<u>DoD</u>									
Active	16,683	20,084	17,966	18,416	19,289	18,327	18,273	17,984	18,028
Res/Gd Total	310	425	1,714	1,861	1,635	2,123	1,700	1,787	1,781
DoD Total	16,993	20,509	19,680	20,277	20,924	20,450	19,973	19,771	19,809

## **Officer Requirements and Structuring the Officer Acquisition Program**

Requirements for new officers, like requirements for new enlisted personnel, are a product of the need for officers in the projected force as compared to the projected future inventory of officers. Properly functioning programs fill the gross requirements for officer entrants for any given year, and provide an even flow of sufficient new officers to each Service to avoid the emergence of unmanageable shortages and overages by age and grade in the future. Each of the Services uses a mix of sources for new officers.

The mix of officer acquisition programs used must recognize the characteristics of each source. Some of the differing characteristics of current programs are stable input, long lead-time; flexible inputs, short lead-time; high academic quality with comprehensive military indoctrination; and high level of technical skill. Additionally, consideration must be given to each program's ability to attract applicants, the quality of the graduates, and their probable retention and attrition. These differences and others are recognized and exploited in planning officer procurement.

The Service Academies present a long lead-time program that produces highly trained career military officers.

ROTC is also a long lead-time program and provides the largest single input of officers to the active duty force, although many of these officers will leave active duty and join the Reserve Components. In this manner, ROTC provides officers to support the total force, both active and reserve.

Officer Candidate/Training Schools provide the short lead-time commissioning source necessary to respond to immediate surges in officer requirements, since the programs can be expanded or reduced in a relatively short period of time.

The off-campus commissioning programs, such as the Marine Corps Platoon Leader Corps (PLC) program, are long lead-time programs, and provide the student at virtually any four-year college or university the opportunity to earn a commission through summer training but without military responsibilities during the school year. Finally, Other Enlisted Commissioning Programs are relatively long lead-time in nature, and provide a source of officers who possess specific technical skills and who have a proven high rate of retention. The lead-time for Other Enlisted Commissioning Programs is generally shorter than for Service Academies or ROTC programs since most participants have previous college credits, requiring less time to complete their program.

In addition to these reasons for using a variety of sources to satisfy officer requirements, it is also desirable to use different sources to keep the officer corps from being restricted to a narrow segment of the national population and to provide opportunities for highly qualified enlisted personnel.

Officer Acquisition Training may be divided into six separate programs:

- Service Academies
- ROTC
- Officer Candidate Schools
- Off-Campus Commissioning Programs
- Enlisted Commissioning Programs
- Health Professions Acquisition Programs

During FY 1986 the Navy instituted the Officer Sea and Air Mariner (OSAM) Program which provides another avenue of officer accessions directly into the Naval Reserve. The program covers all phases of training from Officer Candidate School to specific platform training in a designated warfare specialty. Once training is completed, after approximately two years, individuals are released from active duty and fill a Selected Reserve billet to complete a four year drilling obligation.

### Service Academies

The mission of each of the Service Academies (United States Military Academy, United States Naval Academy, and United States Air Force Academy) is to meet a portion of the long-range requirement for career military officers. They provide instruction and experience to cadets or midshipmen so that they graduate with the knowledge and character essential to leadership and with the motivation to become career officers. Cadets and midshipmen receive a rigorous four year undergraduate college education which includes a technically oriented core curriculum regardless of major. Successful completion of the specified academic, leadership and military requirements entitles the graduate to a Bachelor of Science degree and a Regular commission in one of the Military Services. Up to one-sixth of Naval Academy graduates in each year may be commissioned in the Marine Corps.

The Service Academies are distinctive among the collegiate institutions of the nation in that their curricula are specifically designed to prepare young men and women for service as professional officers. The total curriculum at each Academy is designed to develop the qualities of character, intellect, and physical competence needed by the officer who may, in the course of a full career, be called upon to perform duties ranging from leading a small combat unit to advising the highest government councils. The programs include the sciences, the humanities, and military and physical training, and form the basis for further professional development or, when required, graduate education.

The enrollment of each of the Service Academies is established by law. This fact establishes stable training loads for the Academies. Training load data for the Service Academies are shown in Table IV-4.

TABLE IV-4.--Training Inputs, Outputs, and Loads, Service Academies,  
FY 1990 - 1993

<u>Service</u>	<u>FY 90</u> <u>Load</u>	<u>FY 91</u> <u>Load</u>	<u>Input</u>	<u>FY 92</u> <u>Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93</u> <u>Output</u>	<u>Load</u>
<u>Army</u>	5,422	5,545	1,319	963	5,382	1,375	1,004	5,610
<u>Navy</u>	4,356	4,342	1,120	959	4,229	1,119	836	4,105
<u>Air Force</u>	4,364	4,375	1,285	1,061	4,350	1,272	908	4,215
DoD Total	14,142	14,262	3,724	2,983	13,961	3,766	2,748	13,930

Each of the Military Departments sponsors an Academy preparatory school. Marine Corps and Coast Guard personnel attend the Navy school. The missions of these schools are to provide intensive instruction and guidance, in courses of instruction approximating one academic year, to selected enlisted personnel in preparation for entry to the Service Academies. Students compete for nominations by the Secretaries of the Military Departments and from other sources. The Naval Academy Preparatory School also provides instruction to candidates for the Marine Corps Enlisted Commissioning Education Program during the summer months. Training load data for the Academy preparatory schools is shown in Table IV-5.

**TABLE IV-5.--Training Inputs, Outputs, and Loads,  
Academy Preparatory Schools, FY 1990 - 1993**

<u>Service</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<u>Army</u>	216	216	315	182	213	315	182	213
<u>Navy</u>	173	159	247	178	159	247	178	159
<u>Marine Corps</u>	11	11	15	11	11	15	11	11
<u>Air Force</u>	<u>248</u>	<u>236</u>	<u>240</u>	<u>203</u>	<u>222</u>	<u>240</u>	<u>203</u>	<u>222</u>
DoD Total	648	622	817	574	605	817	574	605

### **ROTC Programs**

ROTC is a long lead-time program which is the single largest source of officers for the Armed Forces. Like the Service Academies, ROTC is used to provide a relatively constant input of officers for active duty, but ROTC also provides non-career officers as well as career officers. The program is currently conducted at over five hundred civilian colleges and universities throughout the nation. The Army, Navy, and Air Force each sponsor a ROTC program; up to one-sixth of the Navy graduates may be commissioned in the Marine Corps. Scholarships and subsistence allowances authorized by law, in addition to conventional recruiting and advertising methods, are used to attract qualified students. Scholarships are awarded to young men and women who exhibit potential ability and interest in fields of projected Service needs.

There are both scholarship and non-scholarship, as well as two-year and four-year, ROTC programs. The curriculum of each program is tailored to the needs of the individual Services. For example, the Navy teaches the basics of ship navigation, while the Army teaches the fundamentals of ground combat and the Air Force provides basic instruction in aerospace history and doctrine. Each of the programs includes instruction in leadership, military customs and military history, and each program provides prospective officers with a gradual transition from the civilian environment to the military environment. Each ROTC program consists of a series of regularly scheduled academic classes throughout the school year combined with mandatory summer camps or cruises which are designed to give the student realistic military experience and a first-hand view of military life.

The ROTC scholarship continues to be an important incentive to attract exceptionally qualified individuals to ROTC. The rising cost of education makes the scholarship even more attractive. The Congress increased the number of authorized ROTC scholarships from 19,000 in FY 1979 to 29,500 in FY 1982. The Army increased from 6,000 scholarships in FY 1979 to 12,000 authorized in FY 1981. The Air Force increased from 6,500 to 9,500 authorized scholarships in FY 1981. Due to resource constraints, the Navy will be able to fund only an average of 5,421 scholarships for FY 1992 and 5,266 in FY 1993. The Army will fund an average of 9,150 scholarships in FY 1992 and 10,350 in FY 1993. The Air Force will fund 3,636 scholarships in FY 1992 and 3,594 in FY 1993.

The ROTC program is being expanded through the establishment of more host institutions and new extension centers. Students at an extension center participate in the ROTC unit of a larger host institution. This practice extends the ROTC option to students attending the numerous small colleges and universities not large enough in themselves to support a viable ROTC unit. The Army has expanded its program significantly since FY 1980 by adding 81 new extension centers. The Army now has 315 host 275 institutions. The Navy has 66, and the Air Force has 147.

As noted at the beginning of this chapter, the ROTC program is not included in Service training loads because the students are not in an active military status. The following table shows the three Service ROTC programs for FY 1992 and 1993.

**TABLE IV-6.--Senior ROTC Programs in FY 1992/1993**

<b><u>FY 1992</u></b>				<b>Average</b>
<b><u>Service</u></b>	<b><u>Beginning</u></b>	<b><u>Graduates</u></b>	<b><u>Average</u></b>	<b><u>Number of</u></b>
	<b><u>Enrollments</u></b>		<b><u>Enrollments</u></b>	<b><u>Scholarship</u></b>
				<b><u>Enrollees</u></b>
Army	50,091	5,800	46,294	9,150
Navy	8,250	1,677	8,416	5,421
Air Force	<u>14,716</u>	<u>1,890</u>	<u>13,642</u>	<u>3,307</u>
DoD Total	73,057	9,367	68,352	17,878
<b><u>FY 1993</u></b>				<b>Average</b>
<b><u>Service</u></b>	<b><u>Beginning</u></b>	<b><u>Graduates</u></b>	<b><u>Average</u></b>	<b><u>Number of</u></b>
	<b><u>Enrollments</u></b>		<b><u>Enrollments</u></b>	<b><u>Scholarship</u></b>
				<b><u>Enrollees</u></b>
Army	50,946	5,800	47,095	8,955
Navy	8,250	1,470	8,261	5,266
Air Force	<u>15,352</u>	<u>1,800</u>	<u>14,232</u>	<u>3,406</u>
DoD Total	74,548	9,070	69,588	17,627

### **Off-Campus Commissioning Programs**

The only Officer Acquisition Training program in which college students participate and is conducted off the college campus is the Marine Corps Platoon Leaders Class (PLC). This program provides for enlistment as a Marine Corps Reservist while the student is still an undergraduate and requires participation in summer military training.

Students participating in this program attend either one or two summer training sessions, depending upon when during their college career, they were enrolled. The objective of the program is to indoctrinate, motivate, and train the enrollees by providing instruction in basic military subjects, leadership, and physical training. PLC students are commissioned when their college degrees are conferred; the newly commissioned Marine Corps officers then attend The Basic School at Quantico, Virginia.

In conformance with the nature of this program, the training loads in Table IV-7 are based only on the time spent in summer training. Loads, consequently, are low as compared to inputs and outputs.

**TABLE IV-7.--Training Inputs, Outputs, and Loads,  
Off-Campus Commissioning Programs  
FY 1990 - 1993**

<u>Service Component</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<u>Marine Corps Reserve</u>	187	135	1,356	1,041	151	1,320	986	145

### **Officer Candidate Schools (OCS)**

Each of the Military Services operates an Officer Candidate School. The Air Force school is entitled Officer Training School (OTS).

Enlisted members can use this route to "rise from the ranks". The existence of OCS programs, and the other enlisted commissioning programs covered in the next section, is therefore a significant advancement incentive to ambitious and promising enlisted personnel.

The four Services offer direct entry into OCS to selected college graduates without previous enlisted service. Some college students in highly specialized academic disciplines, such as engineering and physical sciences, feel that they cannot afford the time required to participate in ROTC; OCS provides a way to a commission for these persons and, as well, for other well-qualified persons who desire to become officers after graduation from college. Due to Congressionally mandated reductions in officer end-strength, the Navy has decreased the Officer Candidate School workload.

The following tables show length and load data for Officer Candidate Schools.

**TABLE IV-8.--Course Lengths (Weeks), Officer Candidate Schools**

<u>Army OCS</u>	<u>Navy OCS</u>	<u>Marine Corps OCS</u>	<u>Air Force OTS</u>
16	16	10	12

**TABLE IV-9.--Training Inputs, Outputs, and Loads,  
Officer Candidate Schools,  
FY 1990 - 1993**

<u>Service Component</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<u>Army</u>								
Active	120	97	450	345	111	560	429	138
Reserve	18	10	140	107	35	140	107	35
Natl Guard	46	43	0	0	0	0	0	0
<u>Navy</u>								
Active	520	383	600	522	381	600	522	384
Reserve	0	0	0	0	0	0	0	0
<u>Marine Corps</u>								
Active	58	94	582	419	94	582	419	94
Reserve	0	0	0	0	0	0	0	0
<u>Air Force</u>								
Active	155	116	402	350	90	402	350	90
Reserve	8	15	75	64	16	75	64	16
Natl Guard								
<u>DoD</u>								
Active	853	690	2,034	1,636	676	2,144	1,720	706
Gd/Res Total	<u>72</u>	<u>68</u>	<u>215</u>	<u>171</u>	<u>51</u>	<u>215</u>	<u>171</u>	<u>51</u>
DoD Total	925	758	2,249	1,807	727	2,359	1,891	757

#### **Other Enlisted Commissioning Programs**

The Services each have enlisted commissioning programs in addition to Officer Candidate Schools. The purposes of these programs are: (1) to provide a source of officers in specific skills with an expected high rate of retention; (2) to provide an avenue whereby enlisted personnel with proven qualifications can augment the commissioned ranks; and (3) to provide a measure of motivation to enlisted personnel. The Navy's Enlisted Commissioning Programs now number five and have a planned training load of 1,439 in FY 1992 and 1,440 in FY 1993. A similar program, the Marine Enlisted Commissioning Education Program, has been expanded to offer degrees in technical and liberal arts academic disciplines. Students in the USAF Airman Education and Commissioning Program (AECp) major in engineering and computer science or physical science, with matriculation up to three years; the average academic time spent in the program is about 27 months. In the Navy, Marine Corps and Air Force, participants attend the Officer Candidate School of their Service before they are commissioned. Like OCS/OTS, these education programs carry an active duty service requirement. The Navy will continue to emphasize enlisted commissioning programs to maintain officer procurement in FY 1990 and 1991. The Air Force is reducing emphasis on these programs because of funding reductions. In FY 1988 the Army began reporting the warrant officer certification program in this category. While the other Services' participants are all on active duty, the Army's program also includes the Reserve and National Guard.



The following table displays load data for these programs. All participants are members of the active forces.

**TABLE IV-10.--Training Inputs, Outputs, and Loads,  
Other Enlisted Commissioning Programs, FY 1990 - 1993**

<u>Service</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<u>Army</u>	668	524	2,722	2,561	589	2,732	2,586	594
<u>Navy</u>	1,395	1,465	1,195	1,006	1,439	1,195	1,001	1,440
<u>Marine Corps</u>	289	296	115	100	296	115	100	296
<u>Air Force</u>	100	179	100	33	174	100	64	215
DoD Total	2,452	2,464	4,132	3,700	2,498	4,142	3,751	2,544

### **Health Professions Acquisition Programs**

This subcategory may be conveniently divided into two parts, the Armed Forces Health Professions Scholarship Program and the Uniformed Services University of the Health Sciences Program.

The Health Professions Scholarship Program was established in 1972 by Public Law 92-426. Participants are selected from among students, or those accepted for enrollment, in recognized health professions schools. Participants are commissioned in grade O1 in the Reserve of their parent Service, but, except for a short period of annual active duty, are not in active status. They are, therefore, not included within the training loads of their Services. Upon graduation, participants must serve obligated tours of duty, the length of which depends on the length of their participation in the program.

The program is authorized a total of 5,000 scholarships at its current level. Service data for FY 1992 and 1993 are shown in Table IV-11.

**TABLE IV-11.--Health Professions Acquisition Program,  
Scholarships Awarded and Graduates, FY 1992/1993**

<u>FY 1992 Service</u>	<u>Scholarships</u>	<u>FY 1992 Graduates</u>
Army	1,505	430
Navy	1,240	361
Air Force	1,380	397
DoD Total	4,075	1,177

<u>FY 1993 Service</u>	<u>Scholarships</u>	<u>FY 1993 Graduates</u>
Army	1,590	430
Navy	1,240	377
Air Force	1,497	404
DoD Total	3,740	1,012

An additional acquisition program for health professionals, the Uniformed Services University of the Health Sciences (USUHS), began operation in 1976. In accordance with PL 92-426, the student body of the USUHS is composed of commissioned officers of the Uniformed Services. The first students graduated from this program in 1980.

The USUHS plans an incoming class of 158 medical students in FY 1992 and 158 in 1993. This institution will, over the long term, provide approximately 25 percent of DoD's projected physician requirements. Training inputs, outputs and loads for this DoD school for FY 1990-1993 are shown in Table IV-12.

TABLE IV-12.--Training Inputs, Outputs, and Loads, USUHS  
FY 1990 - 1993

<u>FY 90</u>	<u>FY 91</u>		<u>FY 92</u>			<u>FY 93</u>	
<u>Load</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>	<u>Input</u>	<u>Output</u>	<u>Load</u>
490	488	158	165	489	158	162	489

## V

### SPECIALIZED SKILL TRAINING

#### General Description

Specialized Skill Training provides officer and enlisted personnel with skills and knowledge needed to perform specific jobs. Each Service has established a job structure that makes it possible for it to carry out its assigned missions. Each position in each organization within that job structure has been analyzed to determine the skills necessary to insure that each job is done properly and efficiently. The purpose of Specialized Skill Training is to impart these required skills to the proper number of individuals in a phased manner so that each position vacancy in the structure can be filled promptly with a qualified replacement.

Specialized Skill Training, as used in this report, is characterized by the following:

Inclusions: Initial, progression, and functional training for both officers and enlisted personnel. Specialized Skill Training specifically includes Army Advanced Individual Training, Navy Apprenticeship Training and Marine Combat Training. This training category also includes aviation-related ground training and enlisted leadership training below the level of that carried in Professional Development Education.

Exclusions: All Officer Acquisition Training programs, notably Officer Candidate School, formerly included in Specialized Training budget documents.

Army One-Station Unit Training (OSUT), as does Specialized Skill Training, provides Army personnel with job-related training in a number of skills. However, since OSUT is conducted as one course which combines Recruit and Specialized Skill Training, it is treated separately in this report (see Chapter III), and OSUT loads are not included in the Specialized Skill Training loads in this chapter.

Specialized Skill Training loads will decrease 14,079 or 10 percent between FY 1991 and FY 1992 and 16,764 or 12 percent between FY 1991 and FY 1993. Reserve Components training loads decreased 8.6 percent from FY 1991 to FY 1992 and 10.5 percent from FY 1991 to FY 1993. Although entry level training for enlisted personnel makes up 80 percent of total Reserve Component training loads, Reserve and Guard officers and enlisted personnel beyond the initial entry stage are also trained by the Active establishment. DoD wide, the requirement to improve the technical skills of career personnel to keep pace with new equipment acquisition and modifications to the existing inventory will continue into the foreseeable future, and this is reflected in the Specialized Skill Training loads for FY 1991 and 1992.

Specialized Skill Training loads for FY 1980-1992 are as shown in Table V-1 on the following page.

**Table V-1.--Specialized Skill Training Loads, FY 1980-1993**

<u>Service Component</u>	<u>FY 80</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89</u>	<u>FY 90</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
<u>Army a/</u>									
Active	39,089	39,922	39,220	38,554	40,641	40,438	39,000	41,247	39,552
Reserve	3,677	5,902	6,856	6,613	6,305	7,502	8,856	7,154	6,822
Nat'l Guard	5,183	5,738	7,159	7,435	6,976	9,189	7,837	7,460	7,324
<u>Navy</u>									
Active	35,874	42,530	41,663	43,158	41,023	49,912	53,990	39,344	38,959
Reserve	469	1,676	1,607	1,775	1,497	1,253	1,539	1,640	1,634
<u>Marine Corps</u>									
Active	7,624	10,084	9,248	8,580	8,470	10,456	10,465	11,318	11,346
Reserve	504	1,500	1,534	1,399	1,228	2,356	1,622	1,802	1,800
<u>Air Force</u>									
Active	21,445	22,311	21,638	17,858	13,294	15,521	15,578	15,050	14,856
Reserve	591	1,042	1,306	1,254	1,078	654	1,417	1,196	1,222
Nat'l Guard	1,031	1,774	1,850	2,031	1,660	1,475	2,019	2,033	2,044
<u>DoD</u>									
Active	104,032	114,847	111,769	108,150	103,428	116,327	119,033	106,959	104,713
Gd/Res Total	<u>11,455</u>	<u>17,632</u>	<u>20,312</u>	<u>20,507</u>	<u>18,744</u>	<u>22,429</u>	<u>23,290</u>	<u>21,285</u>	<u>20,846</u>
DoD Total	115,487	132,479	132,081	128,657	122,172	138,756	142,323	128,244	125,559

a/ Data do not include Army One-Station Unit Training loads.

As in the other types of training covered in this report, the demand placed on the training establishment for individuals with certain skills is determined by comparing projected requirements for each skill and skill level with the projected future inventory of trained service members.

When anticipated losses are deducted from the current inventory, shortages in various skill areas are revealed. These shortages, except for those that can be satisfied through on-the-job training, or, in a few cases, through lateral entry from civilian life of individuals who already possess needed job skills, create a demand for a phased output of trained replacement personnel. Also, estimates are made of the proportion of students in each training course who will fail to complete the course. These course attrition factors determine the inputs necessary to achieve the desired course outputs. Inputs, outputs, attrition patterns, and course lengths determine the training loads. These factors are discussed for each sub-category of Specialized Skill Training in the remainder of this chapter.

One of the challenges facing the Reserve Components is the improvement of the process to match individuals to billets that carry the appropriate military occupational specialty or rating. The majority of the specialties or ratings require formal school training prior to designation. Since limited availability for active duty prevents members of the Selected Reserve from attending many formal schools, initial skill training programs are being developed to train prior-service Reservists in selected occupational specialties using combinations of two week formal schools, on-the-job training, correspondence courses, mobile training teams, and civilian vocational technical courses.

Specialized Skill Training is the most diverse of the major categories of individual training. In the interest of clarity, the full category has been divided into five sub-categories. Two are concerned with initial skill training, one for officers, the other for enlisted personnel; two others cover more advanced training, again divided by officer and enlisted. The last category covers both officer and enlisted training which, for the most part, imparts required knowledge or skills without changing the student's primary skill or skill level.

In 1986 the Army conducted a thorough review of the OSD course type codes used in the Army Program for Individual Training (ARPRINT). Code corrections and changes that were made were reflected in the FY 1988 and future Military Manpower Training Reports. While some training changed categories, the major impact occurred in the Specialized Skill Training category. Initial skill and skill progression training for enlisted personnel is higher than reported in the FY 1988 Military Manpower Training Report. The tables in this chapter use the revised classification system for FY 1986 and following years.

### **Initial Skill Training (Enlisted)**

Initial Skill Training (Enlisted) includes all formal training normally given immediately after Recruit Training and leading toward the award of a military occupational specialty or rating at the lowest skill level. Successful completion of the training qualifies the enlisted member to take a position in the job structure of the Service and to progress, through job experience, to the journeyman level. Army One-Station Unit Training satisfies this same purpose but, because it combines the skill training with recruit training in a single course, it is treated separately in this report.

The great majority of Service recruits are drawn from the least skilled segment of the population. Most recruits are under age 21 and have little civilian job experience. In addition, some civilian specialties are not in demand in the military job structure, and many of the most important military skills have no civilian counterpart. Consequently, only a small number of people enter the Service with a skill that can be used with little or no additional training, and enlistees must be trained in a technical skill before they can become productive. Some skills can be acquired through experience and on-the-job training. The vast majority, however, are most effectively and efficiently learned through formal courses. In some situations, on board ship or in remote locations for example, the opportunity for on-the-job training is often limited.

Load data for Initial Skill Training (Enlisted) are displayed in Table V-2. The classification of this training is determined by its purpose, rather than by whether entrants attend immediately after Recruit Training. Thus some prior-service students and cross-trainees from other skill areas are reflected in these data.

TABLE V-2.--Training Inputs, Outputs, and Loads,  
Initial Skill Training (Enlisted), FY 1990 - 1993

<u>Service Component</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<u>Army</u>								
Active	15,052	14,269	69,117	65,163	15,387	63,342	60,001	14,406
Reserve	5,232	5,998	22,807	21,099	4,315	22,576	20,918	4,299
Natl Guard	6,248	5,596	25,075	23,471	5,131	24,560	22,999	5,054
<u>Navy</u>								
Active	19,400	20,635	107,643	101,285	19,225	106,750	100,424	19,104
Reserve	940	846	5,496	5,172	936	5,585	5,253	938
<u>Marine Corps</u>								
Active	4,459	4,585	30,724	29,726	5,028	30,832	29,756	5,157
Reserve	1,575	1,052	8,721	8,415	1,212	8,682	8,375	1,211
<u>Air Force</u>								
Active	9,594	9,347	40,854	38,403	9,306	40,854	38,403	9,306
Reserve	508	1,114	3,917	3,885	916	4,064	3,873	932
Natl Guard	1,129	1,358	5,942	5,642	1,360	5,978	5,679	1,369
<u>DoD</u>								
Active	48,505	48,836	248,338	234,577	48,946	241,778	228,584	47,973
Gd/Res Tot	<u>15,632</u>	<u>15,964</u>	<u>71,958</u>	<u>67,684</u>	<u>13,870</u>	<u>71,445</u>	<u>67,097</u>	<u>13,803</u>
DoD Total	64,137	64,800	320,296	302,261	62,816	313,223	295,681	61,776

New mission requirements and technological change have resulted in consolidation or splitting skill areas and extensive modification of existing training programs. For instance, the introduction of word processors and microcomputers into Air Force duty sections of personnel administration and operations resource management has increased the percentage of new accessions requiring formal training for these skills.

Prior to FY 1983, Naval Reserve personnel mobilization requirements were met primarily with Navy veterans (E-4 thru E-6) who became affiliated with the Naval Reserve. However, these personnel exceeded mobilization rate requirements (E-1 thru E-3) and many could not qualify for Reserve peculiar missions without extensive retraining. Therefore, the Navy initiated the Enlisted Sea and Air Mariner (ESAM) Program to meet E-1 through E-4 Navy Manpower Mobilization System (NAMMOS) personnel requirements. The ESAM Program enables the Naval Reserve to tailor individual training to attain personnel mobilization requirements in both critical skill areas and desired ranking (E-1 thru E-4). ESAMs are Selected Reservists placed on extended active duty while completing necessary formal training. Upon completion of training they report to the Naval Reserve Force for proficiency training and qualification. The proficiency or operational training is not included in the training loads of this report.

Reserve trainees graduating from recruit training proceed to Initial Skill Training in their occupational specialty. This may consist of a course in a Service school or Advanced Individual Training at an Army training center. If a course in the proper skill is not available, the trainee may be assigned to on-the-job training in an active duty for training status. The actual length of active-duty training, in comparison with the statutory twelve weeks minimum, varies from twelve weeks to twelve months, depending on the occupational specialties involved. To accomodate the Reserve Component member, the split-training program allows completion of initial entry training over a period of normally less than two years in two training periods.

Marines continue to serve in worldwide locations where terrorism remains a constant threat. In meeting this challenge, the Marine Corps has established a program of terrorism counteraction training. Classes range from two hours at recruit training to 25 hours for officer students at the Marine Corps Command and Staff College. Similarly, attendance at other service schools instructing measures to combat terrorism has also increased. For FY 1992 and 1993, approximately 1000 Marines are expected to attend specialized skill schools where these measures are taught.

Reflecting the variety of skills required in the four Services, there are a large number of courses for enlisted personnel in Initial Skill Training, as shown in the following table.

Table V-3.--Number of Courses, Initial Skill Training  
(Enlisted), FY 1992 and 1993

	<u>Army a/</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>
FY 1992	327	139	227	328
FY 1993	327	139	227	328

a/ This does not include 12 courses that will be trained under OSUT.

Initial Skill courses include general skills, intelligence, cryptography, and health service training. Some of these courses are in highly technical skills, such as nuclear reactor specialist or electronics technician. Others involve less complex, but not less important, skills -- cook, clerk-typist, and vehicle driver. A sampling of courses in each Service with the most students in FY 1992/1993 is shown in the Table V-4.

Table V-4.--Initial Skill Training Courses with High Student Flow,  
FY 1992/1993

	<u>No. of</u> <u>Students</u>	<u>Course Length</u> <u>(in weeks)</u>
<u>Army a/</u>		
Medical Specialist	9,782	10.0
Motor Transport Operator	4,401	9.0
Administrative Specialist	4,063	8.0
Petroleum Supply Spec	2,936	9.0
Light Wheel Vehicle Mechanic	2,759	13.0
Food Service Specialist	2,700	9.0
<u>Navy</u>		
Apprentice Training b/	20,758	2.7
Hospital Corpsman Basic	4,886	14.0
Avionics Technician "A" School	3,326	27.7
Electronics Technician "A" Phase I	2,994	17.0
Basic Enlisted Submarine	2,715	6.0
Radioman Class A	2,667	13.0
<u>Marine Corps</u>		
Marine Combat Training	35,180	4.0
Basic Infantry Orientation	9,349	3.0
Rifleman	6,182	5.0
Basic Typing	1,252	2.0
Field Radio Operator	1,848	8.0
Motor Vehicle Operator	1,745	7.0
<u>Air Force</u>		
AF Level GRD Combat Skills	4,329	4.6
Security Specialist	3,053	5.6
APR Law Enforcement Spec	3,048	5.0
M-60 Mach Gun Qual Crse	2,212	1.0
Medical Serv Spec	2,137	14.2
APPR Medical Serv Spec Clin	1,952	8.0

a/ Many of the Army high-density skills and most combat skills (armor crewman, artilleryman, etc.) are trained through One-Station Unit Training (OSUT).

b/ Apprentice Training is composed of fundamental training in one of four basic skill areas: Seaman, Fireman, Airman, Constructionman. The course length shown is the average for those four skills.



Course lengths vary widely often based on the complexity of the subject matter. For example, the Air Force course for cytotechnology specialists is 52 weeks long; whereas the course for packing specialist is only 3 weeks long. Table V-5 shows the average course lengths for the Services' Enlisted Initial Skill Training.

Table V-5.--Average Course Lengths, Academic Days in Training  
(Enlisted), FY 1992 and 1993

	<u>Army</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>
FY 1992	55	60	69	55
FY 1993	55	60	69	55

The final determinant of training loads is the anticipated rate of attrition. Attrition rates must be estimated for each course. The rate may be negligible for a reasonably routine course for which students entered in the course have the necessary abilities and motivation. Attrition may run much higher, up to one-third of the class entrants, in complex technical courses. In contrast to policies governing Recruit Training, many of the students who fail to complete these courses are retrained in other, less difficult, skills rather than discharged. The average anticipated rates for FY 1992 and 1993 are as shown below.

Table V-6.--Average Attrition Rates, Initial Skill Training (Enlisted),  
FY 1992 and 1993  
(Percent)

	<u>Army</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>
FY 1992	6.4%	6.0%	3.18%	5.5%
FY 1993	6.4%	6.0%	3.99%	5.5%

## **Skill Progression Training (Enlisted)**

This sub-category covers skill training received by enlisted personnel prior to Initial Skill Training. Through this training, the student gains the knowledge to perform at a more skilled level or in a supervisory position. Skill Progression Training is most frequently given after servicemembers have gained experience through actual work in their specialty. In some cases, however, training in a relatively narrow subject area as an immediate follow-on to Initial Skill Training is included in Skill Progression Training.

Training load data for Skill Progression Training (Enlisted) are shown in the following table.

**TABLE V-7.--Training Inputs, Outputs, and Loads.**  
**Skill Progression Training (Enlisted), FY 1990 - 1993**

<u>Service</u> <u>Component</u>	<u>FY 90</u> <u>Load</u>	<u>FY 91</u> <u>Load</u>	<u>Input</u>	<u>FY 92</u> <u>Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93</u> <u>Output</u>	<u>Load</u>
<u>Army</u>								
Active	10,276	10,036	77,975	74,275	10,503	74,242	70,861	9,977
Reserve	631	687	2,500	2,106	726	2,305	1,986	709
Natl Guard	930	800	4,640	4,257	819	4,136	3,801	758
<u>Navy</u>								
Active	13,585	14,484	116,643	112,361	13,534	115,074	111,028	13,388
Reserve	96	375	6,665	6,543	362	6,784	6,680	361
<u>Marine Corps</u>								
Active	1,992	2,000	15,507	15,210	2,155	16,499	16,165	2,238
Reserve	47	52	986	968	64	987	968	64
<u>Air Force</u>								
Active	5,015	5,241	62,495	58,930	4,788	60,174	56,727	4,600
Reserve	102	239	2,786	2,734	216	2,942	2,844	226
Natl Guard	272	539	7,199	6,840	551	7,210	6,854	553
<u>DoD</u>								
Active	30,868	31,761	272,620	260,776	30,980	265,989	254,781	30,203
Gd/Res Tot	<u>2,078</u>	<u>2,692</u>	<u>24,776</u>	<u>23,448</u>	<u>2,738</u>	<u>24,364</u>	<u>23,133</u>	<u>2,671</u>
DoD Total	32,946	34,453	297,396	284,224	33,718	290,353	277,914	32,874

The requirement for Skill Progression Training arises from the fact that training in a skill at entry level and subsequent experience do not, in many cases, fully qualify servicemembers to do the more advanced jobs in their field without further formal training. Several factors may contribute, singly or in combination, to a need for additional formal training:

1. The introduction of new equipment.
2. The need to produce a higher degree of skill in a sub-specialty.
3. The need to impart a broader base of knowledge to qualify an individual for a supervisory responsibility.
4. The requirement for refresher training to bring the servicemember up to date on the latest information and techniques in a skill.

The primary need, as in all other types of training, is to have trained individuals available to replace losses as they occur. Planning future training in this sub-category follows the same general pattern as for Initial Skill Training. Some additional complications, however, are introduced by the fact that members eligible for schooling are frequently serving overseas or on board ship, rather than flowing from the Recruit Training pipeline. This situation frequently requires that personnel receive the training when they are available, preferably between duty assignments, rather than when they might more easily be accommodated for formal school training. Reserve Component personnel have similar difficulties because of civilian employer commitments.

The following table displays statistics in Skill Progression Training in each of the Services for FY 1991/1992.

Table V-8.--Courses, Course Lengths, and Projected Attrition,  
Skill Progression Training (Enlisted), FY 1992/1993

	<u>Army</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>
Number of Courses	462	1,571	423	578
Average Course Lengths (Academic Days)	35	39.82	38	19.0
Projected Attrition Rate (Percent)	4.9%	3.0%	1.26%	2.5%

The Air Force's average days in training is low compared to the other Services because of the large use of short courses. The large number of Navy and Air Force courses is a reflection of the technical nature of these Services and their large number of subspecialties. Of course, part of the difference is due to differing Service approaches to course definition and segmenting.

## Initial Skill Training (Officer)

As a general rule, Officer Acquisition Training is oriented toward the broad educational background and general military training which is considered necessary for all officers entering a Service. In consequence, most newly commissioned officers require further training for the specific type of duty they will be performing in their first duty assignment. Initial Skill Training for officers is, therefore, analogous to Initial Skill Training for enlisted personnel -- both provide the job-oriented training which, added to the military fundamentals learned earlier, prepares the individual for taking a place in the job structure.

Load data for Initial Skill Training (Officer) are displayed in the following table.

TABLE V-9.--Training Inputs, Outputs, and Loads, Initial Skill Training (Officer), FY 1990 - 1993

<u>Service Component</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<u>Army</u>								
Active	2,213	2,346	9,348	9,195	2,336	9,360	9,207	2,358
Reserve	945	1,501	5,906	5,779	1,396	5,009	4,909	1,111
Natl Guard	1,212	682	2,837	2,768	690	2,863	2,798	777
<u>Navy</u>								
Active	1,059	969	2,730	2,647	802	2,568	2,488	757
Reserve	26	17	240	239	17	245	244	17
<u>Marine Corps</u>								
Active	1,133	1,045	3,665	3,617	1,186	3,415	3,381	1,140
Reserve	2	9	146	143	11	145	142	11
<u>Air Force</u>								
Active	345	311	1,360	1,281	311	1,360	1,281	311
Reserve	10	28	135	129	28	135	129	28
Natl Guard	30	58	275	262	58	277	263	58
<u>DoD</u>								
Active	4,750	4,671	17,103	16,740	4,635	16,703	16,357	4,566
Gd/Res Tot	<u>2,225</u>	<u>2,295</u>	<u>9,539</u>	<u>9,320</u>	<u>2,200</u>	<u>8,674</u>	<u>8,485</u>	<u>1,932</u>
DoD Total	6,975	6,966	26,642	26,060	6,835	25,377	24,842	6,498

With minor exceptions, all newly commissioned Army officers attend officer basic courses at their branch schools -- Infantry officers at the Infantry School, Engineer officers at the Engineer School, and so forth. These courses average 12 weeks in length, and officers attend before reporting to their first unit of assignment. In addition, certain officers are selected to attend follow-on skill or functional training courses for more specialized assignments.

All submarine and nuclear officers and most Surface Navy officers go to Initial Skill Training. The Navy provides 25 courses for officers in Initial Skill Training, with an average course length of 103 days.

All newly commissioned Marine Corps officers attend a basic course for general orientation and training. In addition, most Marine Corps officers attend one of the 51 Initial Skill Training courses sponsored by the Corps. They may also participate in others conducted by the Navy or other Services. Such courses average 86 days in length and are related to specific officer jobs.

The Air Force conducts 30 Initial Skill Training courses for the officers with an average length of 50 days. About 78 percent of newly commissioned officers attend these courses, some immediately after commissioning and others after spending some time at their first duty assignment.

### **Skill Progression Training (Officer)**

Skill Progression Training for officers is, in general, aimed at officers with several years of practical experience and provides them knowledge needed to assume more advanced responsibilities. For example, the Army provides advanced courses which are structured to prepare the students for battalion and brigade staff duties in addition to command responsibilities at the company and battery level. Data for Skill Progression Training (Officer) are displayed in the following table.

**TABLE V-10.--Training Inputs, Outputs, and Loads, Skill Progression Training (Officer), FY 1990 - 1993**

<u>Service Component</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<u>Army</u>								
Active	4,031	3,876	11,733	11,518	3,781	11,333	11,123	3,688
Reserve	186	202	3,205	3,137	190	3,240	3,172	195
Natl Guard	353	362	2,299	2,220	374	2,310	2,231	376
<u>Navy</u>								
Active	1,333	1,573	12,619	12,436	1,496	12,611	12,446	1,469
Reserve	55	45	1,054	1,049	55	1,097	1,093	56
<u>Marine Corps</u>								
Active	252	287	2,685	2,649	297	2,680	2,644	294
Reserve	6	6	208	203	9	206	201	8
<u>Air Force</u>								
Active	271	318	5,403	5,079	318	5,403	5,079	318
Reserve	11	13	219	208	13	219	208	13
Natl Guard	18	35	590	560	35	593	564	35
<u>DoD</u>								
Active	5,887	6,054	32,440	31,682	5,892	32,027	31,292	5,769
Gd/Res Tot	<u>629</u>	<u>663</u>	<u>7,575</u>	<u>7,377</u>	<u>676</u>	<u>7,665</u>	<u>7,469</u>	<u>683</u>
DoD Total	6,516	6,717	40,015	39,059	6,568	39,692	38,761	6,452

The Army conducts 170 courses averaging 61 days in length. The Navy maintains 189 courses, averaging 42 days in length, which cover a variety of specialized duties that are typically performed by officers with several years of service -- for example, aviation maintenance officer course and nuclear propulsion plant course.

Both the Marine Corps and the Air Force conduct broad courses for officers at about the same level as the Army's advanced courses; however, as these are Service-wide and uniform in content, they are carried in Professional Development Education. Within Skill Progression Training, Marine Corps officers attend 243 courses, averaging 20 days in length, sponsored by the Corps. They also utilize the course offerings of the other Services. The Air Force has 163 courses, averaging 15 academic days each, for the purpose of training officers in new duties required by their prospective assignments.

Attrition from the Skill Progression courses for officers is significantly lower than for enlisted training or initial skill officer training. Attrition of one to two percent is typical of such courses.

The Air National Guard (ANG) also conducts specialized skill progression training in several aviation disciplines at ANG installations instead of Air Force facilities because of constrained training time available for the reservist, geographic dispersion of units, availability of training equipment, and location of training areas.

### **Functional Training (Officer and Enlisted)**

Functional Training is an "all other" sub-category covering those types of required training that do not fit neatly into the definitions of the other sub-categories. By and large, Functional Training is in subject areas that cut across the scope of military occupational specialties and provides additional required skills without changing the student's primary specialty or skill level. Both officers and enlisted personnel participate in Functional Training. Load data for Functional Training are shown in the Table V-11.

TABLE V-11.--Training Inputs, Outputs, and Loads, Functional Training  
(Officer and Enlisted), FY 1990 - 1993

<u>Service</u> <u>Component</u>	<u>FY 90</u> <u>Load</u>	<u>FY 91</u> <u>Load</u>	<u>Input</u>	<u>FY 92</u> <u>Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93</u> <u>Output</u>	<u>Load</u>
<u>Army</u>								
Active	8,866	8,473	97,171	88,628	9,240	96,008	87,822	9,123
Reserve	508	468	7,699	6,798	527	7,194	6,336	508
Natl Guard	446	397	5,838	5,178	446	5,746	5,120	429
<u>Navy</u>								
Active	3,906	4,390	414,944	409,595	4,287	412,932	407,523	4,241
Reserve	136	256	29,723	28,944	270	28,174	27,395	262
<u>Marine Corps</u>								
Active	2,620	2,548	34,376	32,378	2,652	32,577	30,670	2,517
Reserve	726	503	6,992	6,861	506	6,992	6,861	506
<u>Air Force</u>								
Active	296	361	7,111	7,004	327	6,890	6,810	321
Reserve	23	23	1,014	1,014	23	1,014	1,014	23
Natl Guard	26	29	898	880	29	893	880	29
<u>DoD</u>								
Active	15,688	15,772	553,602	537,605	16,506	548,407	532,825	16,202
Gd/Res Tot	<u>1,865</u>	<u>1,676</u>	<u>52,164</u>	<u>49,675</u>	<u>1,801</u>	<u>50,013</u>	<u>47,606</u>	<u>1,757</u>
DoD Total	17,553	17,448	605,766	587,280	18,307	598,420	580,431	17,959

Army Functional Training includes the airborne, ranger, and special forces qualification courses, many specialized NCO supervision courses, language training, and a number of courses related to specialized equipment (e.g., Satellite Communication Operation and Maintenance; 8-inch Atomic Projectile Assembly).

Navy Functional Training differs from that of the other Services because of the very high input to a large number of very short courses. Most of the training is conducted during in-port periods for ships' crews, and includes the following types of activity:

1. Shore training for shipboard teams (firefighting, damage control, anti-submarine warfare, and so forth).
2. Short basic or refresher courses at fleet training centers in the operation of equipment or systems.(TOMAHAWK operations and maintenance, SH-60B system familiarization, 50 cal. machine gun operations).
3. Shipboard in-port training assistance.(Combat systems, advanced acoustic analysis and command excellence seminar mobile training teams).

4. Precommissioning training for newly formed crews of ships under construction (Pre-commissioning damage control, CIC team training and radar navigation team training).

Marine Corps functional training provides skills necessary to perform a specific mission outside of the normal primary occupational specialty. Examples of functional training courses taught at Marine institutions are range officer, aerial observer, field grade officer winter warfare planning, scout/sniper, mountain survival, and drill instructor training. The Marine Corps is undertaking a new program called "Marine Battle Skills Training" that will provide the individual Marine with the basic skills required to function in a combat environment and effectively contribute to unit defense. For FY 1990 approximately 31,000 Marines will participate in this training. This figure remains the same in FY 1991 and FY 1992.

All Air Force Functional Training is survival training related to various environments: water, arctic, jungle, or tropic. These courses train air crews in the skills for long-term combat survival and survival in chemical, biological, and radiological contaminated environments.

The following table provides additional statistics on Functional Training.

Table V-12.--Courses and Course Length, Functional Training, FY 1992/1993

	<u>Army</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>
FY 92 Number of Courses	1,260	772	95	8
Average Course Length (Days)	19	4	14	18
FY 93 Number of Courses	1,260	772	95	8
Average Course Length (Days)	19	4	14	18



## VI

### FLIGHT TRAINING

#### General Description

Flight Training programs provide basic flying skills required prior to operational assignment of pilots, navigators, and naval flight officers. Most of the training in this category is undergraduate flight training; at the conclusion of this training, a graduate is awarded "wings" and is classified as a "designated" or "rated" officer. Flight Training includes programs for pilots of all Services, navigators in the Air Force, and naval flight officers in the Navy and Marine Corps. Pilot training may be in jet or propeller-driven fixed-wing aircraft, or in helicopters. Some related advanced flight training, such as Army instructor pilot training is also included in Flight Training. Enlisted programs in aviation-related subjects (for example, in air traffic control) and Air Force survival training are in Specialized Skill Training. Marine Corps enlisted navigator training is included in Flight Training.

During FY 1986, the Navy opened flight training to a limited number of reservists to fill critical billets as Naval Flight Officers. The students enter the pipeline on extended active duty and are trained at the Aviation Officers Candidate School (AOCS) with their active duty counterparts. After completing all formal specific aircraft training, they are released from active duty to receive their proficiency training with a Naval Air Reserve squadron. The proficiency or operational training is not included in the training loads of this report.

Generally, however, Reserve Component participation in Flight Training is relatively minor, since most aviator requirements in Reserve units are filled by experienced aviators who join after extended service in the active components.

Flight Training loads were reduced by approximately 45 percent over the period FY 1975 to FY 1978 because of the net effect of the following factors:

- Peacetime reductions in active force aviator requirements in all Services, except for moderate increases in Army aviator requirements associated with the 16-division force objective in the last years.
- Restriction of undergraduate flight training for Reserve Component members to the number needed to fill positions in reserve aviation units that could not be filled through recruitment of experienced aviators leaving active duty -- as, for example, positions in aviation units that are remote from major population centers.

The Service trends for flight training in FY 1992 and 1993 call for maintaining the rates of training initiated in FY 1979. The rates reflect an ongoing effort to return pilot and navigator inventories to long-term sustainable levels, levels which in the late 1970s were adversely affected by several years of unexpectedly high attrition rates for flying personnel. More undergraduate helicopter pilot training for the Army's reserve components is planned. This will increase the Army's reserve pilot inventories and increase the deployability of reserve air detachments.

Flight Training loads, by Service and component, for Fiscal Years 1980 through 1993 are shown in Table VI-1.

**Table VI-1.--Total Flight Training Loads, FY 1980-1993**

<u>Service</u>	<u>FY 80</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89</u>	<u>FY 90</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
<u>Component</u>									
<u>Army</u>									
Active	1,204	953	914	865	1,135	1,203	1,034	1,011	1,008
Reserve	31	89	106	87	88	112	130	113	102
Natl Guard	80	245	262	231	280	255	233	221	242
<u>Navy</u>									
Active	1,253	2,075	2,244	2,023	2,249	2,255	1,485	1,441	1,455
<u>Marine Corps</u>									
Active	790	529	617	534	513	572	574	580	573
<u>Air Force</u>									
Active	2,467	2,833	2,708	2,773	2,495	2,395	2,080	1,778	1,586
Reserve	51	51	46	62	50	60	65	65	74
Natl Guard	128	177	192	205	192	197	214	217	206
<u>DoD</u>									
Active	5,714	6,390	6,483	6,195	6,392	6,425	5,173	4,810	4,622
Res/Gd Tot	<u>290</u>	<u>562</u>	<u>606</u>	<u>585</u>	<u>610</u>	<u>624</u>	<u>642</u>	<u>616</u>	<u>624</u>
DoD Total	6,004	6,952	7,089	6,780	7,002	7,049	5,815	5,426	5,246

For purposes of clarity, the following discussion of aviation training is divided into three sections -- Undergraduate Pilot Training, Navigator Training, and All Other Flight Training.

### Undergraduate Pilot Training

Undergraduate Pilot Training qualifies students to perform the basic flight duties and to assume the responsibilities of military pilots. Air Force courses include sufficient flying training to allow the student to attain proficiency in the general class of aircraft (fixed wing or rotary wing) flown in future assignments. Flying training is augmented by flight-related ground training and simulator training. Also included is officer professional development training which prepares students for the responsibilities of a junior officer. The Army uses a large number of warrant officer pilots. Enlisted entrants undergo warrant officer candidate training before entering flight phases of training, and receive their warrants upon graduation from flight training. A few Army flight training students are already commissioned officers or warrant officers upon entry. The Navy conducts officer training for naval aviation officer candidates concurrent with the early phases of flight training.

Training data for FY 1990-1993 are displayed in the following table.

TABLE VI-2.--Training Inputs, Outputs, and Loads, Undergraduate Pilot Training, FY 1990 - 1993

<u>Service Component</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<u>Army</u>								
Active	948	780	2,250	2,203	776	2,252	2,203	778
Reserve	95	106	252	248	94	222	218	82
Natl Guard	208	179	432	426	161	432	426	162
<u>Navy</u>								
Active	1,635	1,020	1,018	732	970	1,054	713	992
<u>Marine Corps</u>								
Active	514	526	463	372	535	458	373	530
<u>Air Force</u>								
Active	1,597	1,410	1,101	1,080	1,109	949	882	906
Reserve	56	57	58	51	57	58	51	57
Natl Guard	144	146	152	139	147	137	121	129
<u>DoD</u>								
Active	4,694	3,736	4,832	4,387	3,390	4,713	4,171	3,206
Gd/Res Total	<u>503</u>	<u>488</u>	<u>894</u>	<u>864</u>	<u>459</u>	<u>849</u>	<u>816</u>	<u>430</u>
DoD Total	5,197	4,224	5,726	5,251	3,849	5,562	4,987	3,636

Load data for each Service for undergraduate helicopter pilot training are shown in Table VI-3.

TABLE VI-3.--Training Inputs, Outputs, and Loads, Undergraduate Helicopter Pilot Training, FY 1990 - 1993

<u>Service Component</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<u>Army</u>								
Active	948	780	2,250	2,203	776	2,252	2,203	778
Reserve	95	106	252	248	94	222	218	82
Natl Guard	208	179	432	426	161	432	426	162
<u>Navy</u>								
Active	515	327	366	269	320	366	268	318
<u>Marine Corps</u>								
Active	251	258	257	214	268	258	214	267
<u>Air Force</u>								
Active	18	20	0	0	0	0	0	0
Natl Guard	1	2	0	0	0	0	0	0
<u>DoD</u>								
Active	1,732	1,385	2,873	2,686	1,364	2,876	2,685	1,363
<u>Gd/Res Total</u>	<u>304</u>	<u>287</u>	<u>684</u>	<u>674</u>	<u>255</u>	<u>654</u>	<u>644</u>	<u>244</u>
DoD Total	2,036	1,672	3,557	3,360	1,619	3,530	3,329	1,607

The following table shows programmed course lengths and projected attrition rates for the Army undergraduate helicopter pilot training program.

Table VI-4.-- Course Lengths and Attrition Rates, Army Undergraduate Helicopter Pilot Training, FY 1992/1993

	<u>Commissioned Officer Candidates</u>	<u>Warrant Officer Candidates</u>
Course Length (weeks)	40.0	46.0
Attrition Rate	5%	5%

The Army course is 6.0 weeks longer for warrant officer candidates than for commissioned officers, since the course also serves as a warrant officer candidate school.

Navy Undergraduate Pilot Training begins with a common core of basic ground training and primary flight training and then diverges according to whether the student is to be qualified in jet aircraft, propeller aircraft or helicopters. The basic ground phase, or aviation pre-flight indoctrination, is six weeks in length for officer students and 14 weeks for aviation officer candidates, since this phase also serves as an officer training period for the latter group.

The following table shows course lengths, attrition rates, and type of aircraft used for training for each phase of the syllabus.

Table VI-5.--Course Phasing, Navy/Marine Corps  
Undergraduate Pilot Training, FY 1992/1993

<u>Course/Phase</u>	<u>Course Length (Weeks)</u>	<u>Attrition Rate (Percent)</u>		<u>Type Aircraft</u>
		<u>NAVY</u>	<u>USMC</u>	
Commissioned Officers Aviation Pre-flight Indoctrination	6	3%	2%	N/A
Aviation Officer Candidates	14	12%	N/A	N/A
Primary Training (Jet, Prop, Helo)	22	13%	13%	T-34C
Strike Training (Jet)				
Intermediate	22.8	6%	6%	T-2C
Advanced	24.6	8%	8%	TA-4J
Maritime Training (Prop)				
Intermediate	5.2	1%	1%	T-34C
Advanced	18.6	4.5%	4.5%	T-44A
E-2/C-2 Training				
Intermediate E-2/C-2	0.0	0%	N/A	T-34C
Intermediate Jet (CQ)	23.8	12%	N/A	T-2C
Advanced Prop	10.0	1%	N/A	T-44A
Helicopter Training				
Intermediate	5.2	1%	1%	T-34C
Advanced	22.2	4%	4%	TH-57

Because of the task requirements which dictate variations in course content, the standard Undergraduate Pilot Training course is as short as 55 weeks for an officer student qualifying in helicopters or as long as 82 weeks for an aviation officer candidate qualifying in jets. Actual course duration may be longer because of unforeseen circumstances such as major aircraft groundings, fuel shortages, or inclement weather.

The following table displays load data for Navy and Marine Corps Undergraduate Pilot Training. All participants are in the active force.

TABLE VI-6.--Training Inputs, Outputs, and Loads, Navy/Marine Corps Undergraduate Pilot Training, FY 1990 - 1993

<u>Service</u>	<u>FY 90</u> <u>Load</u>	<u>FY 91</u> <u>Load</u>	<u>Input</u>	<u>FY 92</u> <u>Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93</u> <u>Output</u>	<u>Load</u>
<u>Navy</u>								
Strike	671	372	286	199	339	320	187	364
Maritime	449	321	366	264	311	368	258	310
Helo	<u>515</u>	<u>327</u>	<u>366</u>	<u>269</u>	<u>320</u>	<u>366</u>	<u>268</u>	<u>318</u>
Total	1,635	1,020	1,018	732	970	1,054	613	992
<u>Marine Corps</u>								
Jet	232	233	168	126	229	164	128	227
Prop	31	35	38	32	38	36	31	36
Helo	<u>251</u>	<u>258</u>	<u>257</u>	<u>214</u>	<u>268</u>	<u>258</u>	<u>214</u>	<u>267</u>
Total	514	526	463	372	535	458	373	530

The final program of Undergraduate Pilot Training is training of Air Force fixed wing jet pilots. Air Force helicopter pilots are trained in the Army program. The majority of Air Force fixed wing pilots are trained in the all-jet USAF Undergraduate Pilot Training program. The standard course length is 52 weeks. Forecast attrition for FY 1992/1993 is 20 percent, not including flight screening programs.

In addition, approximately 110 Air Force pilots will be trained annually in the EURO-NATO Joint Jet Pilot Training (ENJJPT) program. ENJJPT is a cooperative undergraduate pilot and pilot instructor training program that began operation on 1 October 1981 at Sheppard Air Force Base, Texas. It is the most significant project of its type that has been undertaken among Allies during peacetime. The nations involved in the program are Belgium, Canada, Denmark, Germany, Greece, Italy, Netherlands, Norway, Portugal, Turkey, United Kingdom, and the United States. ENJJPT is based on the principles of proportionate sharing of program costs and proportionate instructor pilot manning. Forecast attrition for the program is 16.7 percent and the course length is 55 weeks.

Load data for both standard Air Force pilot training and ENJJPT are shown in Table VI-7.

**TABLE VI-7.--Training Inputs, Outputs, and Loads, Air Force  
Undergraduate Jet Pilot Training, FY 1990 - 1993**

	<u>FY 90</u> <u>Load</u>	<u>FY 91</u> <u>Load</u>	<u>Input</u>	<u>FY 92</u> <u>Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93</u> <u>Output</u>	<u>Load</u>
Active	1,579	1,390	1,101	1,080	1,109	949	882	906
Reserve	56	57	58	51	57	58	51	57
Natl Guard	<u>143</u>	<u>144</u>	<u>152</u>	<u>139</u>	<u>147</u>	<u>137</u>	<u>121</u>	<u>129</u>
Total	1,778	1,591	1,311	1,270	1,313	1,144	1,054	1,092

At the conclusion of Undergraduate Pilot Training, the new pilot is capable of operating an aircraft in such a manner that future training requirements, in order to accomplish a specific mission, are limited to advanced flight training in aircraft used in operational units and training in the employment of applicable mission weapon systems.

### **Undergraduate Navigator Training**

The Navy trains Navy and Marine Corps personnel to become Naval Flight Officers. The Air Force trains its personnel as navigators. The duties of Naval Flight Officers and Air Force navigators are not precisely the same because of mission differences. But at the undergraduate level, they are sufficiently similar that they are referred to collectively in this report as "navigators" (The Army does not train or use navigators).

The Undergraduate Naval Flight Officer (NFO) training program is a building block training program. The training commences with Aviation Pre-flight Indoctrination (6 weeks for officers) or Aviation Officer Candidate School (14 weeks for officer candidates) where the student is provided basic aeronautical and aviation physiological foundation knowledge. After completing this phase, the student enters the Basic phase. This 15 week course provides the student with the basic skills and knowledge needed to safely navigate, communicate, manage aircraft systems, and to describe two-plane formation maneuvers. Successful completion of Basic qualifies students for entrance into Interservice Undergraduate Navigation Training (22 weeks) conducted at Mather AFB, California (described in a later paragraph), or the Navy Intermediate Phase. The Intermediate Phase (13 weeks) expands the knowledge gained in Basic and requires higher skill and performance standards. Practical flight skills are developed in the ID-23 Computerized Navigation/Communications Training Device; the 2B37 T-34C Simulator; the 2F101 T-2 Simulators; the T-2B aircraft for jet acclimatization and high speed navigation; the T-47A aircraft for jet instrument navigation; and the T-34C aircraft for formation visual navigation, instrument navigation, and advanced performance maneuvers. After successful attainment of the performance standards, the students proceed to one of the following advanced Naval Flight Officer Training phases which provides specific skills and knowledge: Radar Intercept Officer (RIO) (19 weeks), Tactical Navigation (TN) (15 weeks), Overwater Jet Navigation (OJN) (19 weeks), and Airborne Tactical Data Systems (ATDS) (15 weeks).

The advanced segment of Undergraduate Navigator Training for Naval Flight Officers destined for the Multi-Engine Land Base Community is now managed by the Naval Air Training Unit (NAVAIRTU) at Mather AFB. Navigator candidates receive 320 hours of academic instruction, 78 hours of simulator training, and 80 hours of flight instruction in the T-43 aircraft during 23 weeks of training. This training provides sufficient skills and knowledge so that further training for the newly rated navigator can be limited to flight training in operational aircraft and training in employment of applicable weapons systems.

NFO training achieved full training capability in the T-34 aircraft in both Basic and Intermediate phases in FY 1985. This aircraft allows for increased hands on training. The T-47 was introduced to NFO training and achieved initial training capability in VT-10 Intermediate and RIO phases in FY 1985. T-47 full training capability was achieved in FY-1986. The T-47 replaced the T-39 aircraft.

The Air Force program consists of a 14 week basic course that includes 266 hours of academic instruction, 35 hours of flight simulator training, 22 hours of actual flight instruction in the T-43 aircraft, and 5 hours in the T-37 aircraft. T-37 hours in this phase were reduced from 5 hours to 2.5 hours beginning in FY 1988. After the core course, students will attend one of three follow-on courses: Fighter, Attack, and Reconnaissance (FAR); Tanker, Transport, and Bomber (TTB); or Electronic Warfare Officer Training (EWOT). The FAR course provides 250 academic hours, 64 simulator hours, 14 T-37 hours, and 24 T-43 hours. The TTB trainee receives 300 academic hours, 68 simulator hours, and 88 T-43 hours. EWOT provides 431 academic hours, 63 simulator hours, and 28 T-43 hours.

Undergraduate Navigator Training provides sufficient skills and knowledge so that further training for the newly rated navigator can be limited to advanced flight training in operational aircraft and training in employment of applicable weapon systems. Training load data for Undergraduate Navigator Training are shown in the following table.

TABLE VI-8.--Training Inputs, Outputs, and Loads, Undergraduate Navigator Training, FY 1990 - 1993

<u>Service Component</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<u>Navy</u>								
Active	571	395	598	394	401	580	392	393
<u>Marine Corps</u>								
Active	58	48	49	37	45	47	36	43
<u>Air Force</u>								
Active	440	254	703	668	259	715	640	254
Reserve	2	5	13	11	5	13	11	5
Natl Guard	38	54	146	135	55	147	135	55
<u>DoD</u>								
Active	1,069	697	1,350	1,099	705	1,342	1,068	690
Gd/Res Tot	<u>40</u>	<u>59</u>	<u>159</u>	<u>146</u>	<u>60</u>	<u>160</u>	<u>146</u>	<u>60</u>
DoD Total	1,109	756	1,509	1,245	765	1,502	1,214	750



## Other Flight Training

This category covers miscellaneous types of flight training, including advanced flight training, flight familiarization, and other flight programs, which were not previously included in undergraduate pilot or navigator training. Load data are displayed in Table VI-9.

TABLE VI-9.--Training Inputs, Outputs, and Loads,  
Advanced Familiarization and Other Flight Training, FY 1990 - 1993

<u>Service</u> <u>Component</u>	<u>FY 90</u> <u>Load</u>	<u>FY 91</u> <u>Load</u>	<u>Input</u>	<u>FY 92</u> <u>Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93</u> <u>Output</u>	<u>Load</u>
<u>Army</u>								
Active	255	254	1,611	1,508	235	1,438	1,347	230
Reserve	17	24	144	119	19	139	113	20
Natl Guard	47	54	465	429	60	546	504	80
<u>Navy</u>								
Active	49	70	2,586	2,586	70	2,586	2,586	70
<u>Air Force</u>								
Active	358	416	3,206	3,004	410	3,264	3,079	426
Reserve	2	3	15	15	3	95	77	12
Natl Guard	15	14	193	150	15	248	181	22
<u>DoD</u>								
Active	662	740	7,403	7,098	715	7,288	7,012	726
Gd/Res Tot	<u>81</u>	<u>95</u>	<u>817</u>	<u>713</u>	<u>97</u>	<u>1,028</u>	<u>875</u>	<u>134</u>
DoD Total	743	835	8,220	7,811	812	8,316	7,887	860

The Army includes in this category courses for instructor pilots and specific pilot qualification courses in various aircraft. Most of the courses are short, in the range of two to seven weeks.

The Navy Other Flight Training workload is comprised mainly of instructor ground school training courses where prospective instructors are taught unique training techniques employed in the training of flight students. These courses are the Flight Instructor Training Course (FITC) and the Academic Instructor Training School (AITS). Jet transition training for designated aviators not qualified in jet aircraft is also included in this category, as are indoctrination flights for U.S. Naval Academy and NROTC midshipmen.

The Air Force conducts a separate 22-day flight screening program for candidates for Undergraduate Pilot Training who have not had previous flight familiarization training. The resulting student loads are included in the Flight Familiarization category. Similar training is provided to most Air Force Academy and some ROTC cadets.

The Air Force Other Flight Training workload is limited largely to instructor courses for pilots and navigators and some specialized courses conducted by the Air Training Command in such fields as electronic warfare. Most Air Force postgraduate flight training is conducted under operational command auspices.

In each of the Services, graduates of undergraduate pilot and undergraduate navigator training receive supplementary training in the specific aircraft they will be flying on operational missions. Emphasis is placed on crew training and performance under conditions that would be encountered in combat. In the Army most of this training is provided as part of normal unit training by the operational unit to which the new pilot is assigned. In the other Services, this additional training is provided by Navy or Marine fleet readiness squadrons, Marine combat crew readiness training squadrons, and Air Force combat crew training squadrons. As an exception, centrally conducted Army advanced flight training loads are included within Other Flight Training loads. However, most such training is classified as "crew and unit training" by the Navy, Marine Corps and Air Force and is not included in the loads of this report.

### **Determination of Requirements for Rated Officers**

Flight Training rates are developed by comparing projections of future requirements for rated officers with projections of the future status of inventories of both reserve and active duty rated officers. Consideration is given to the need to have sufficient active duty aviators on hand, in appropriate grades. Requirements for rated officers include both the numbers needed to man the force in peacetime and the additional increment needed to man and sustain the force when war breaks out. For analytical purposes, aviator requirements are divided into two parts: unit and individuals. Requirements for aviators for each of these categories are computed to meet both peacetime needs and wartime mobilization needs.

Unit requirements represent the number of rated officers needed to carry out operational, training, and management activities for programmed units. Each such authorized position (that is, military space or billet) requires a rated officer as an incumbent in order to carry out the functions of the job, either because the job involves flying duties (i.e., "operational flying" positions as defined for purposes of the Aviation Career Incentive Act of 1974) or requires flying experience. Other positions that may be occupied by rated officers for career broadening or similar purposes, but that do not require rated officer incumbents for accomplishing the duties, are not included. Unit requirements have three subcomponents: force, training, and supervision.

- Force requirements are the positions required to man and operate the Services' aircraft. The number of force positions is a product of established crew ratios or the number of crews per aircraft, which take into account workload (flying hour) and readiness factors and the amount of mission flying and unit flight training that is necessary.

- Training positions include the flyers who are conducting formal flight training.

- The supervision component is made up of officer positions entailing actual supervision of flying and flight-related activities and the performance of staff jobs which require the expertise of a rated officer. These positions are continuously scrutinized by the services to assure that rated requirements are valid.

Individual requirements include the transients, students and other individuals needed to make it possible to provide for reasonable manning of positions in units.

### Rated Officer Inventory Projections

Projecting rated officer inventories into the future must be based on historical experience, current judgment, and an appraisal of how the officers will react to conditions in the future (for example: pay, morale, state of the civilian economy, civilian airline hiring plans, and family satisfaction with service life). These estimates are projected for at least five years in the future. Comparisons of total force inventories of rated officers are then made against the computed total force requirements, and training rates for the entire five-year period are adjusted. This process is repeated each year so that adjustments can be made in training rates based on changes in requirements and/or updated inventory projections. This continuing process of adjustment is necessary to insure that the correct number of trained rated officers will be available in the future without large and expensive fluctuations in training rates.

### Training Rate Adjustments

When a comparison of requirements and inventories discloses a shortage or overage of projected rated officers, training rates are adjusted upward or downward in order to bring the program back into balance. For example, if projected FY 1995 pilot requirements exceed projected inventories by 500, an increase in training rates (that is, output or production) of pilots of 100 per year starting in FY 1991 may be appropriate. Inputs into the training program would start in FY 1991 in order to obtain the first increase in desired output in FY 1992. This reevaluation process is repeated at least once each year, with adjustments made as necessary to avoid wide fluctuations in loads.

### Determination of Training Loads

The process described above, through continuous updating of the comparison between projected rated officer requirements and inventories, leads to a requirement for phased output from the flight training establishment. The desired annual output, considering the anticipated attrition rates and the planned course lengths, as discussed in the preceding sections on the various types of flight training, establishes the size of the input necessary to achieve the target output. Training loads are then calculated, using these factors, to determine the average number of students to be on hand during the training year. For FY 1992 and 1993, the currently recommended loads are those displayed previously in this chapter.

## VII

### PROFESSIONAL DEVELOPMENT EDUCATION

#### General Description

The purpose of Professional Development Education is to provide training and education to career military personnel to prepare them to perform the increasingly complex tasks that become their responsibilities as they progress in their military careers. Where Specialized Skill Training is directed toward specific job skills, Professional Development Education is concerned with broader professional development goals in such subjects as leadership and management, military science, engineering, and medicine. Professional Development Education is conducted at both military and civilian institutions. This category includes senior enlisted leadership training in recognition of the broad professional content of these courses, as opposed to the narrower skill-oriented training typical of most enlisted training programs. However, most of the programs in this category are for professional development of the officers.

Education in the military is fundamental to the development of military officers enabling them to become fully qualified to perform duties of high responsibility in both war and peace. In most non-military professions, growth in ability and knowledge is gained through experience. In the military, opportunities for full practice of the profession are limited to wartime, and even those officers with combat experience have not had the opportunity for thorough exercise of warfare decision skills at their current rank and responsibility. The military school system serves partially to fill this shortfall by educating military officers in the skills and knowledge needed to perform their duties in a variety of locales and situations, both in peacetime and wartime.

Training loads for FY 1980-1993 are as shown in Table VII-1. The total loads in the table show a considerable disparity among the Services in amounts of Professional Development Education. These disparities are more apparent than real, and are related mainly to somewhat different ways of categorizing Service education/Specialized Skill Training programs.

The first three subcategories of Professional Development Education are officer professional military development programs. These programs are at three levels: career, intermediate, and senior.

To accomodate an increased force structure in the Reserve Components, more professional development training is required for mid-career officers and enlisted personnel in the Reserve and National Guard. The Reserve Components account for 6 percent of career, intermediate, and senior levels of Professional Development Education, and 9 percent of Enlisted Leadership Training in FY 1992 and 1993.

**Table VII-1.--Professional Development Education Training Loads, FY 1980-1993**

<u>Service</u> Component	<u>FY 80</u>	<u>FY 86</u>	<u>FY 87</u>	<u>FY 88</u>	<u>FY 89</u>	<u>FY 90</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
<u>Army</u>									
Active	2,402	3,710	3,410	3,767	3,904	3,475	3,182	3,425	3,433
Reserve	53	76	101	95	116	75	61	57	60
Natl Guard	56	62	66	59	82	85	79	75	77
<u>Navy</u>									
Active	1,582	3,042	2,060	2,195	2,119	2,270	2,455	2,494	2,539
Reserve	10	50	61	67	120	31	28	28	28
<u>Marine Corps</u>									
Active	647	838	847	917	929	1,002	1,001	1,294	1,288
Reserve	14	27	35	24	36	48	51	61	61
<u>Air Force</u>									
Active	3,191	4,292	3,904	3,602	3,332	3,349	3,321	3,560	3,737
Reserve	44	44	47	44	37	46	56	56	56
Natl Guard	38	41	46	49	44	41	49	49	49
<u>DoD</u>									
Active	7,822	11,882	10,221	10,481	10,284	10,096	9,959	10,773	10,997
Res/Gd Tot	215	300	356	338	435	326	324	326	331
DoD Total	8,037	12,182	10,577	10,819	10,719	10,422	10,283	11,099	11,328

In addition to the regular courses for active force officers, most schools in this category present nonresident courses and short seminars. Large numbers of Reserve Component officers and other military students are provided instruction through correspondence courses. A subset of PME is the systematic and comprehensive process of developing the skills, knowledge, and military judgement required to enhance the ability to deal with the increasingly complex responsibilities associated with Marine Corps duty and the responsibilities of higher grades. In contrast to specific MOS or billet-related skills, PME is the life-long study of the profession of arms within the framework of Marine Air-ground (MAGTF) operations. PME is acquired through structured self-study, professional reading, symposia, formal schools attendance and experiences gained in duty assignments. The purpose of PME is to assist all Marines in fulfilling their personal responsibility for achieving operational competence.

### **Career Officer Professional Schools**

The Marine Corps and Air Force conduct career officer professional courses for officers with some experience in operational units. These courses are Service-wide in scope and are, therefore, carried in this report under Professional Development Education. The Army and Navy conduct courses that are at a similar level, but are oriented toward specific skills (e.g., the Navy's Surface Warfare Officers Course) or somewhat broader skills within a specific part of the Service (e.g., the Army's Armor Officer Advanced Course). The Army and Navy courses, because of their specialization, are treated in this report as part of Specialized Skill Training.

The Marine Corps Amphibious Warfare School prepares officers in the grade of captain for duties in battalion or squadron command or on regimental-level staffs. The course length is 39 weeks. The Air Force Squadron Officer School is an 8-week course designed to prepare selected captains, after completion of some active service experience, for command and staff duties appropriate to their grade.

The training load data for FY 1990-1993 associated with these Marine and Air Force courses are displayed in the Table VII-2.

**TABLE VII-2.--Training Inputs, Outputs, and Loads, Career Officer Professional Schools, FY 1990 - 1993**

<u>Service Component</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<u>Marine Corps</u>								
Active	207	207	332	332	214	316	316	207
Reserve	8	8	220	220	8	220	220	8
<u>Air Force</u>								
Active	574	387	3,000	3,000	387	3,000	3,000	387
Reserve	2	3	20	20	3	20	20	3
Natl Guard	3	3	25	25	3	25	25	3
<u>DoD</u>								
Active	781	594	3,332	3,332	601	3,316	3,316	594
Gd/Res Total	<u>13</u>	<u>14</u>	<u>265</u>	<u>265</u>	<u>14</u>	<u>265</u>	<u>265</u>	<u>14</u>
DoD Total	794	608	3,597	3,597	615	3,581	3,581	608

## Intermediate Service Schools

Each of the Services maintains a Command and Staff College. In addition, the Navy is executive agent for the Armed Forces Staff College, a joint institution sponsored by the Joint Chiefs of Staff with students from all Services. While there are differences in approach and curriculum based on the requirements of the parent Service, each of the courses is designed to prepare officers for command and staff duties in all echelons of their parent Services and in joint or allied commands. A relatively small number of officers from each Service attends one of the Command and Staff Colleges of the other Services; a few attend Allied schools at the same level. Attendance at the Intermediate Service Schools is on a selective basis. The following table lists the Command and Staff Colleges and their respective course lengths.

Table VII-3.--Intermediate Service Schools

<u>Schools</u>	<u>Location</u>	<u>Course Length (Weeks)</u>
Armed Forces Staff College	Norfolk, VA	22
Army Command and General Staff College	Fort Leavenworth, KA	42
College of Naval Command and Staff	Newport, RI	44
Marine Corps Command and Staff College	Quantico, VA	43
Air Command And Staff College	Montgomery, AL	43

Another school categorized as an Intermediate Service School for purposes of this report is the Defense Systems Management College at Fort Belvoir, Virginia. This is a joint school that conducts a primary 20-week course in program management concepts and methods with the major purpose of preparing selected military officers and DoD civilian personnel for assignments in program or project management.

Load data for military personnel attending Intermediate Service Schools is shown in the following table.

**TABLE VII-4.--Training Inputs, Outputs, and Loads, Intermediate  
Service Schools, FY 1990 - 1993**

<u>Service Component</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<b>Army</b>								
Active	209	158	347	347	154	347	347	154
Reserve	21	2	20	20	3	20	20	3
Natl Guard	26	6	2	2	2	2	2	2
<b>Navy</b>								
Active	194	221	506	536	242	556	536	267
Reserve	17	14	422	419	14	422	419	14
<b>Marine Corps</b>								
Active	165	154	205	205	157	202	202	154
Reserve	13	13	256	256	13	256	256	13
<b>Air Force</b>								
Active	324	327	393	393	327	393	393	327
Reserve	12	12	82	82	12	82	82	12
Natl Guard	8	12	82	82	12	82	82	12
<b>DoD</b>								
Active	892	860	1,451	1,481	880	1,498	1,478	902
Gd/Res Total	<u>97</u>	<u>59</u>	<u>864</u>	<u>861</u>	<u>56</u>	<u>864</u>	<u>861</u>	<u>56</u>
DoD Total	989	919	2,315	2,342	936	2,362	2,339	958

### **Senior Service Colleges**

Each of the Military Departments maintains a Senior Service School, or "War College." In addition, there is the National Defense University, consisting of two joint Senior Service Schools, The National War College and the Industrial College of the Armed Forces, which are attended by students from all four Services. Senior Service College attendance is on a highly selective basis; students are chosen by Service selection boards from among the most promising officers in the lieutenant colonel/colonel, commander/captain grades.

The common purpose of these Senior Service Colleges is to prepare students for senior command and staff positions at the highest levels in the national security establishment and the allied command structure. The unifying focus is the study of national goals and national security policy. Each of the Service colleges, while concentrating on the employment of the parent Service in the defense mission, also includes the study of the employment of the forces of other Services.

All of the colleges integrate the study of economic, scientific, political, sociological, and other factors into the consideration of national security problems. The Industrial College, in its approach to national security problems, emphasizes the use and management of national resources. The length of the principal courses at the Senior Service Colleges is ten months. Most colleges also conduct shorter special-purpose seminar-type courses, some particularly designed for Reserve Component officers. Use of these short courses is greatest in the Navy.



Load data for the Senior Service Colleges are shown in the following table.

**TABLE VII-5.--Training Inputs, Outputs, and Loads, Senior Service Colleges, FY 1990 - 1993**

<u>Service Component</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<u>Army</u>								
Active	359	346	1,188	1,186	346	1,248	1,246	349
Reserve	33	34	375	373	33	390	388	34
Natl Guard	22	33	184	183	22	230	229	24
<u>Navy</u>								
Active	148	283	530	500	304	575	555	320
Reserve	10	10	210	210	10	210	210	10
<u>Marine Corps</u>								
Active	58	58	80	80	59	80	80	59
Reserve	5	5	96	96	5	96	96	5
<u>Air Force</u>								
Active	126	128	152	152	128	152	152	128
Reserve	6	6	65	65	6	65	65	6
Natl Guard	6	6	65	65	6	65	65	6
<u>DoD</u>								
Active	691	815	1,950	1,918	837	2,055	2,033	856
Gd/Res Total	<u>82</u>	<u>94</u>	<u>995</u>	<u>992</u>	<u>82</u>	<u>1,056</u>	<u>1,053</u>	<u>85</u>
DoD Total	773	909	2,945	2,910	919	3,111	3,086	941

### **Enlisted Leadership Training**

The courses included in this category are designed to provide selected senior enlisted personnel the skills and knowledge needed to assume the responsibilities of the highest noncommissioned officer grades. These courses are the culmination of formal enlisted training and are, for enlisted personnel, analogous to the officer courses discussed in the preceding sections. In addition to such subjects as methods of leadership, human relations, discipline and training, and the administration and employment of military organizations, the senior non-commissioned officers, in these higher-level schools, are given a broader perspective of the role and functions of their Services. Schools, locations and course lengths are shown in Table VII-6.

Table VII-6.--Enlisted Leadership Training Courses

<u>Schools</u>	<u>Location</u>	<u>Course Length (Weeks)</u>
Army: Sergeants Major Academy	Fort Bliss, TX	22
Navy: Senior Enlisted Academy	Newport, R.I.	9
Marine Corps:		
Sr Level (SgtMaj/Staff MGySgt Sr Course)	Quantico, VA	1
Staff NCO Academy (Career Course)	Quantico, VA	6
	Camp Lejeune, NC	6
	El Toro, CA	6
(Advanced Course)	Quantico, VA	10
Air Force: Senior NCO Academy	Gunter AFB, AL	10
NCO Leadership	61 Worldwide	6
NCO Academy	18 Worldwide	7

Other enlisted leadership training for more junior noncommissioned officers is carried in Specialized Skill Training. This includes command-sponsored NCO academies, for example. This training tends to be more skill related for specific types of specialized leadership responsibilities. The senior enlisted leadership training carried in this chapter is more properly thought of as Professional Development Education in a broader sense. All four Military Services now sponsor Senior Enlisted Leadership Academies. In addition the Air National Guard conducts Professional Military Education courses at McGhee Tyson Air Base, Knoxville, TN. These courses include Leadership School, NCO Academy, Academy of Military Science, and Professional Continuing Education. Army National Guard NCO's are trained in the Reserve Component Noncommissioned Officers Education System (RCNCOES), attending courses at the appropriate level of training at State Military Academies or National Guard Bureau Regional NCO Schools.

Training loads for enlisted leadership training for FY 1990-1993 are shown in Table VII-7.

**TABLE VII-7.--Training Inputs, Outputs, and Loads, Enlisted  
Leadership Training, FY 1990 - 1993**

<u>Service Component</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<u>Army</u>								
Active	351	352	1,076	1,069	352	1,076	1,069	352
Reserve	21	25	121	120	21	126	125	23
Natl Guard	37	40	275	274	51	275	274	51
<u>Navy</u>								
Active	48	47	275	275	47	275	275	47
Reserve	2	2	10	10	2	10	10	2
<u>Marine Corps</u>								
Active	278	276	9,196	9,195	559	9,196	9,195	559
Reserve	22	25	910	895	35	920	905	35
<u>Air Force</u>								
Active	193	209	1,824	1,824	250	2,844	2,844	390
Reserve	5	5	36	36	5	36	36	5
Natl Guard	6	10	72	72	10	72	72	10
<u>DoD</u>								
Active	870	884	12,371	12,363	1,208	13,391	13,383	1,348
Gd/Res Tot	<u>93</u>	<u>107</u>	<u>1,424</u>	<u>1,407</u>	<u>124</u>	<u>1,439</u>	<u>1,422</u>	<u>126</u>
DoD Total	963	991	13,795	13,770	1,332	14,830	14,805	1,474

**Graduate Education Fully Funded, Full Time**

The Department of Defense needs military officers with specialized advanced knowledge, at a level attainable only through graduate education, to perform effectively in certain military jobs. The purpose of the graduate education program in each of the Services is to provide graduate-level education in required disciplines to the numbers of officers required to maintain an inventory of officers qualified to fill these jobs. Under the program described in this section, military officers undergo graduate education on a full time, fully funded basis. An active service payback obligation of three years for the first year of schooling and one year for each year after the first is required of all officers entering the program, up to a maximum set by the Services. (The Funded Legal Education program established by 10 USC 2004)

The following table displays training load data for these graduate education programs. All participants are members of the Active Forces.

TABLE VII-8.--Training Inputs, Outputs, and Loads, Graduate Education  
Fully Funded, Full Time, FY 1990 - 1993

<u>Service Component</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<u>Army</u> Active	952	813	679	550	1,026	679	550	1,026
<u>Navy</u> Active	1,404	1,414	811	693	1,411	810	698	1,411
<u>Marine Corps</u> Active	163	167	92	86	167	92	92	171
<u>Air Force</u> Active	<u>1,075</u>	<u>1,083</u>	<u>726</u>	<u>658</u>	<u>1,128</u>	<u>731</u>	<u>692</u>	<u>1,162</u>
DoD Total	3,594	3,477	2,308	1,987	3,732	2,312	2,032	3,770

Officer graduate students attend either a civilian educational institution or one of the two Service institutions, the Naval Postgraduate School or the Air Force Institute of Technology, depending upon where the required education can best be obtained. Curricula in the two service institutions emphasize military-unique courses, such as in logistics management or intelligence operations, and military applications in all other courses. While these schools are primarily used by the parent Services (including Marine Corps use of the Naval Postgraduate School), they also educate some students from other Services. The following table displays student loads for these two schools.

Table VII-9.--Graduate Education Loads at Service Institutions,  
FY 1990-1993

	<u>Naval Postgraduate School</u>				<u>Air Force Institute of Technology</u>			
	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>FY 92 Load</u>	<u>FY 93 Load</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>FY 92 Load</u>	<u>FY 93 Load</u>
Army	144	155	180	180	22	36	36	36
Navy	1,185	1,191	1,186	1,186	1	2	2	2
Marine Corps	129	135	140	140	1	3	3	4
Air Force	<u>65</u>	<u>65</u>	<u>65</u>	<u>65</u>	<u>1,075</u>	<u>1,083</u>	<u>1,128</u>	<u>1,162</u>
Total DoD	1,523	1,546	1,571	1,571	1,229	1,182	1,265	1,159

Requirements for graduate-educated officers depend upon the number of "validated billets," that is, military positions that have been determined to require an incumbent with graduate-level education in the applicable academic discipline. Each Service has established a system, ordinarily culminating in a board of senior officials in the Service headquarters, which examines the duty prerequisites for each billet nominated for validation and determines if the job does, in fact, require an officer with an advanced degree. Requirements for graduate legal education are determined separately.

## Other Full Time Education Programs

In addition to the Professional Development Education programs already described there are a variety of other full time programs tailored to meet the particular needs of the Services. (Health Professions Education programs are discussed in a separate section at the end of this chapter).

Several programs have been designed to permit selected individuals an opportunity to work toward associate, baccalaureate, or advanced degrees. These programs benefit the Services in several important ways: they increase the technical qualifications of the individuals in the program; they improve the general educational levels of Service personnel; and they provide career retention and recruiting incentives to outstanding personnel. In addition, to the extent possible, personnel in advanced education programs are later used to satisfy validated requirements and hence reduce the required student load in graduate education for validated billets.

The degree-completion programs are managed by the individual Military Departments and each has its own selection criteria. However, in general individuals are not selected for a program unless the education will enhance their professional development and be of use to the Military Department. All of the programs require an active Service payback from the individual.

Short-course education provides the Military Services with needed skills in a wide variety of scientific, administrative, and other fields. These programs are selected to train personnel in job-oriented skills that can best be acquired through abbreviated courses. Accounting, traffic management, and aviation safety are examples of skills involved. Some of this included training is conducted in DoD schools, the remainder in civilian institutions.

TABLE VII-10.--Training Inputs, Outputs, and Loads, Other Full Time Education Programs, FY 1990 - 1993

<u>Service Component</u>	<u>FY 90 Load</u>	<u>FY 91 Load</u>	<u>Input</u>	<u>FY 92 Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93 Output</u>	<u>Load</u>
<u>Army</u>								
Active	414	358	1,393	1,393	347	1,399	1,399	352
<u>Navy</u>								
Active	149	150	1,262	1,261	151	1,266	1,266	155
Reserve	2	2	45	45	2	45	45	2
<u>Marine Corps</u>								
Active	131	139	92	86	138	92	88	138
<u>Air Force</u>								
Active	461	475	8,667	8,664	509	8,667	8,671	515
Reserve	21	30	608	608	30	608	608	30
Natl Guard	18	18	398	398	18	398	398	18
<u>DoD</u>								
Active	1,155	1,122	11,414	11,404	1,145	11,424	11,424	1,160
Gd/Res Tot	41	50	1,051	1,051	50	1,051	1,051	50
DoD Total	1,196	1,172	12,465	12,455	1,195	12,475	12,475	1,210

## Health Professions Education

This subcategory is made up of a wide variety of courses for personnel of all health professions -- physicians, dentists, nurses, medical administrators, and so forth. The majority of the courses offered are conducted in military facilities and vary in length from a few days to a full year. Some training is conducted at civilian medical institutions and in the case of the Army, includes some advanced degree programs. The purpose of Health Professions Education is to expand the skills of military medical personnel and to provide them timely information on the latest techniques in their fields. In this category, the Navy provides long-term training. The Army and Air Force rely on short courses. Educational programs connected with the acquisition of health professionals is carried in this report under Officer Acquisition Training. The following table shows load data for Health Professionals Education.

TABLE VII-11.--Training Inputs, Outputs, and Loads, Health Professions Education, FY 1990 - 1993

<u>Service</u>	<u>FY 90</u> <u>Load</u>	<u>FY 91</u> <u>Load</u>	<u>Input</u>	<u>FY 92</u> <u>Output</u>	<u>Load</u>	<u>Input</u>	<u>FY 93</u> <u>Output</u>	<u>Load</u>
<u>Army</u>	1,190	1,155	859	859	1,200	858	858	1,200
<u>Navy</u>	327	340	306	308	339	303	309	339
<u>Air Force</u>	<u>596</u>	<u>712</u>	<u>2,310</u>	<u>2,313</u>	<u>831</u>	<u>2,310</u>	<u>2,310</u>	<u>828</u>
<u>DoD Total</u>	2,113	2,207	3,475	3,480	2,370	3,471	3,477	2,367

## VIII

### TRAINING MANPOWER

#### **General Description**

Manpower associated with the individual training mission in the Department of Defense can be divided into two parts: first, the trainees and students being trained, and second, the military and civilian manpower that conducts and supports the training. These two classes of manpower are discussed and explained in this chapter.

#### **Trainees and Students**

Manpower undergoing training in the Defense training establishment is defined and quantified in three different ways, each of which serves a somewhat different purpose with regard to manpower accounting and resource allocation.

1. Training Loads. These are the "military training student loads" which are detailed in Chapters III through VII of this report -- the average number of military trainees, students, and cadets of each Service and component in training during a given fiscal year, which is subject to annual congressional authorization. Training loads include all military manpower of a given Service or component who are undergoing individual training, regardless of whether the training is conducted by the parent Service, one of the other Services, a DoD school, or by an agency or institution outside the Department of Defense, such as a civilian college or university. Training loads also include all military personnel in training regardless of their assignment status. Some trainees and students are assigned to the training activity; others are attending training in a temporary duty (TDY) or temporary additional duty (TAD) status while remaining assigned to their parent units; still others are attending while in transit from one permanent assignment to another.

Since training loads are an annual average and most courses are much shorter than a year in length, the actual number of students and trainees who enter training, and the number who graduate, is considerably greater than the training load. For example, the total programmed training load for Recruit Training in FY 1992 is about 39,700, yet about 249,000 persons are to enter Recruit Training and about 231,000 are to graduate.

2. Training Workloads. The total number of trainees and students undergoing training within DoD includes some trainees and students of foreign nations, DoD civilian employees, and members of other departments and agencies of the U.S. Government, notably the Coast Guard. In addition, many U.S. military students and trainees are trained by a Service other than their own. Consequently, the average number of students being trained by a given Service, or its training workload, usually differs from its training load. For example, the Marine Corps has a programmed Flight Training load of 580 in FY 1992; however, since the training is conducted by other Services, its Flight Training workload is zero. On the other hand, because the Navy trains many personnel from other Services and Coast Guard, foreign students as well as most of its own students, the Navy's Specialized Skill Training workload is higher than its training load.

Since training workload, in conjunction with other applicable considerations, is the major determinant of the resources (manpower, funds, materiel and facilities) required to conduct training, it, rather than training load, is appropriately used in considering the allocation of resources to a Service or a training activity. Table VIII-1 displays the programmed training workloads for each of the Services in FY 1991 and 1992.

TABLE VIII-1.--Training Workloads, FY 1992/1993 a/  
(Thousands)

<u>FY 1992</u> <u>Category</u>	<u>Army</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>	<u>DoD</u>
Recruit	15.2	11.1	9.1	4.4	39.7
Off Acquisition	6.4	5.2	.3	4.7	16.7
Specialized Skill	61.9	42.4	10.3	20.5	135.2
Flight	1.5	2.2	0	2.5	6.2
Professional Dev					
Education	2.1	3.1	1.0	2.9	8.9
One-Station Unit					
Training	<u>12.4</u>	=	=	=	<u>12.5</u>
Total	99.5	64.0	20.7	35.0	219.2

<u>FY 1993</u> <u>Category</u>	<u>Army</u>	<u>Navy</u>	<u>Marine Corps</u>	<u>Air Force</u>	<u>DoD</u>
Recruit	15.2	11.0	8.8	4.3	39.3
Off Acquisition	6.7	5.1	.3	4.6	16.7
Specialized Skill	59.6	42.7	9.8	20.4	132.4
Flight	1.5	2.2	0	2.3	6.1
Professional Dev					
Education	2.1	3.1	1.0	3.0	9.2
One-Station Unit					
Training	<u>12.1</u>	=	=	=	<u>12.1</u>
Total	97.2	64.1	19.9	34.6	215.8

a/May not add to totals due to rounding.

3. Students, Trainees, and Cadets. In the Individuals accounts of the Defense Manpower Requirements Report, military manpower is included for each Service as "Trainees and Students" and (except for the Marine Corps) "Cadets". Conceptually, this manpower represents the number of military trainees, students, cadets and midshipmen programmed to be assigned (PCS as opposed to TDY/TAD) for training on the last day of a given fiscal year. Student, trainee, and cadet manpower is similar to training load in that both represent military members of the reporting Service in training status. Nevertheless, there are substantial differences in the way the amount of manpower in these two manpower aggregations is calculated, with the result that the totals are seldom the same. The major reasons for these differences are:



Training loads are many years in training status, as has been mentioned, whereas trainees, students, and cadets are end strengths, or numbers in training on the last day of the fiscal year. Trainee, student, and cadet numbers are thus affected by the seasonality of enlistment patterns, as described in Chapter III, while the element of seasonality is evened out in training loads.

- Training loads include students attending training in a temporary duty (TDY or TAD) status as well as those attending en route training in a PCS status. In the Defense Manpower Requirements Report TDY and TAD students are carried in the categories of their parent units.

Training loads are a more accurate measure of the amount of training that is needed to meet military requirements than are the categorizations "trainees," "students," and "cadets."

### **Manpower in Support of Training**

Military and civilian manpower is required to accomplish the individual training mission. This manpower conducts and supports instruction, operates training bases and facilities, maintains training equipment, produces training aids, provides personal and community services to students, trainees, and other military members, plans and manages training, and performs all the other tasks necessary to conduct and support individual training conducted in training institutions.

ROTC students are not military members in an active duty status and are not included in military manpower training loads. However, ROTC Basic Camp loads are included in the Army Recruit training loads. To be consistent with this treatment of ROTC students, manpower supporting ROTC programs is not included in Tables VIII-2 through VIII-5.

The following tables summarize manpower in support of training by the general functions, Conduct of Individual Training, Training Base Operating Support, and Management Headquarters. Conduct of Individual Training includes the following types of manpower: instructors, instructional support, school/training center staffs, student supervisors and direct training support such as training aids and literature, audiovisual resources, and instructional systems development.

**TABLE VIII-2.--DoD Manpower in Support of Training,**  
**Conduct of Individual Training Function**  
**(End Strengths, Thousands)**

	<u>FY 90</u>		<u>FY 91</u>		<u>FY92</u>		<u>FY 93</u>	
	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>
Army	37.4	11.4	37.7	10.2	36.9	10.4	33.9	10.2
Navy	28.8	3.3	29.5	3.3	28.0	3.3	27.6	3.3
Marine Corps	11.0	0.3	10.6	0.3	10.5	0.3	10.2	0.3
<u>Air Force</u>	<u>16.2</u>	<u>5.5</u>	<u>14.7</u>	<u>5.0</u>	<u>14.5</u>	<u>5.2</u>	<u>14.2</u>	<u>5.2</u>
DoD Total	93.3	20.5	92.5	18.9	89.9	19.1	86.0	18.9

**TABLE VIII-3.--DoD Manpower in Support of Training,  
Base Operating Support Function  
(End Strengths, Thousands)**

	<u>FY 90</u>		<u>FY 91</u>		<u>FY 92</u>		<u>FY 93</u>	
	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>
Army	7.3	17.5	6.8	19.3	6.5	15.7	6.4	14.8
Navy	6.8	6.0	7.3	6.4	6.7	6.2	6.3	6.4
Marine Corps	2.9	1.7	2.9	1.8	2.9	1.7	2.9	1.7
<u>Air Force</u>	<u>8.8</u>	<u>6.2</u>	<u>9.1</u>	<u>7.1</u>	<u>8.6</u>	<u>6.1</u>	<u>6.6</u>	<u>6.0</u>
DoD Total	25.7	31.4	26.1	34.5	24.7	29.7	22.1	28.9

**TABLE VIII-4.--DoD Manpower in Support of Training, Management  
Headquarters Function  
(End Strengths, Thousands)**

	<u>FY 90</u>		<u>FY 91</u>		<u>FY 92</u>		<u>FY 93</u>	
	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>
Army	0.5	0.7	0.5	0.8	0.5	0.6	0.5	0.7
Navy	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Marine Corps	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<u>Air Force</u>	<u>0.7</u>	<u>0.4</u>	<u>0.7</u>	<u>0.5</u>	<u>0.7</u>	<u>0.4</u>	<u>0.6</u>	<u>0.4</u>
DoD Total	1.5	1.4	1.5	1.5	1.4	1.4	1.3	1.4

**TABLE VIII-5.--DoD Manpower in Support of Training, All Functions  
(End Strengths, Thousands)**

	<u>FY 90</u>		<u>FY 91</u>		<u>FY 92</u>		<u>FY 93</u>	
	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>
Army	45.1	29.6	44.9	30.3	43.9	26.7	40.8	25.7
Navy	35.8	9.6	37.1	10.0	35.0	9.8	34.2	9.9
Marine Corp	13.9	1.9	13.5	2.1	13.4	2.0	13.1	2.0
<u>Air Force</u>	<u>25.7</u>	<u>12.1</u>	<u>24.5</u>	<u>12.6</u>	<u>23.8</u>	<u>11.7</u>	<u>21.3</u>	<u>11.6</u>
DoD Total	120.5	53.3	120.1	54.9	116.0	50.2	109.4	49.2

The Service estimates of training attributable manpower include some staff and support manpower that do not contribute to the production of student output and loads but are reported as training resources in the Five Year Defense Program (FYDP) because they belong to organizations with a primary mission of training. The majority of the non-training attributable manpower is for Base Operating Support (BOS) given to non-training tenant activities at training installations.

Table VIII-6 shows changes in total military and civilian manpower in support of training between FY 1980 and FY 1993.

TABLE VIII-6.--Trends, Manpower in Support of Training,  
DoD Total, By General Function, FY 1980-1993 a/  
 (End Strengths, Thousands)

	<u>FY 80</u>			<u>FY 92</u>			<u>FY 93</u>			<u>PercentChange</u>	
	<u>Mil</u>	<u>Civ</u>	<u>TOT</u>	<u>Mil</u>	<u>Civ</u>	<u>TOT</u>	<u>Mil</u>	<u>Civ</u>	<u>TOT</u>	<u>TotalManpower:</u>	
										<u>FY 80-92</u>	<u>FY 92-93</u>
Conduct of Individual Training	90	22	112	90	19	109	86	19	105	- 2.7%	- 3.7%
Base Oper Support	32	39	71	25	30	55	22	29	51	-22.5%	- 7.3%
Management Headquarters	<u>2</u>	<u>2</u>	<u>4</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>1</u>	<u>2</u>	<u>-50.0%</u>	<u>- 0.0%</u>
TOTAL	124	63	187	116	50	166	109	49	158	- 11.2%	- 4.8%

a/ May not add to totals due to rounding

As Table VIII-6 shows, the total military and civilian manpower in support of training has decreased 11.2 percent between FY 1980 and 1992 and 4.8 percent from FY 1992 to 1993. The decrease occurred in all areas supporting training.

As shown in Tables VIII-7 and VIII-8, training workloads will be about 8.4 percent lower in FY 1992 than in FY 1980 and 1.4 percent lower in FY 1992 to FY 1993; considered with the decrease in the level of total manpower in support of training, this implies an increase in manpower productivity.

TABLE VIII-7.--Trends, Training Workloads, FY 1980-1993 a/  
 (Thousands)

	<u>FY 80</u>	<u>FY 92</u>	<u>FY 93</u>	<u>Percent Change</u>	
				<u>FY 80-92</u>	<u>FY 92-93</u>
Army	105	99	97	- 5.7%	- 2.0%
Navy	70	64	64	- 8.6%	0.0%
Marine Corps	18	21	20	+16.6%	- 4.8%
Air Force	<u>47</u>	<u>35</u>	<u>35</u>	<u>-25.5%</u>	<u>0.0%</u>
DoD Total	239	219	216	- 8.4%	- 1.4%

TABLE VIII-8.--Trends, Training Manpower and Training Workloads,  
FY 1980-1993  
 (Thousands)

	<u>FY 80</u>	<u>FY 92</u>	<u>FY 93</u>	<u>Percent Change</u>	
				<u>FY 80-92</u>	<u>FY 92-93</u>
Manpower in Support of Training	187	166	158	-11.2%	- 4.8%
Training Workloads	239	219	216	- 8.4%	- 1.4%

## Training Manpower Detailed by Service and Type of Training

Table VIII-9 shows the manpower required to support FY 1992 and 1993 training workloads by Service and training activity.

As was noted early in this chapter, training workloads, in conjunction with other factors, are the determinants of the resources required to conduct training. The workload/resource relationship is not a simple one, but depends upon the nature of training and training support involved. For example, Flight Training normally requires a great deal of support manpower for aircraft maintenance; weapons training requires close instructor supervision for safety considerations.

TABLE VIII-9.--Training Manpower by  
Service and Type of Training, FY 1992/1993  
(Thousands)

### FY 1992

	<u>Army</u>		<u>Navy</u>		<u>Marine Corps</u>		<u>Air Force</u>		<u>DoD</u>	
	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>
Recruit Officer	3.0	0.1	1.3	*	2.3	*	0.4	*	7.0	0.1
Acquisition	0.7	0.8	0.8	.9	.3	*	1.1	.8	2.9	2.5
Specialized Skill	16.0	4.2	18.5	0.8	6.6	0.2	6.9	2.2	47.9	7.3
Flight Professional	1.0	0.3	5.8	0.4	1.0	*	3.4	.9	11.3	1.6
Development	0.7	0.8	0.5	.9	0.3	0.1	1.1	0.5	2.5	2.2
One-Station Unit Training	4.2	0.3	*	*	*	*	*	*	4.2	0.3
Medical Training	2.2	0.5	1.0	0.1	*	*	1.0	0.1	4.2	0.7
Direct Training Support	9.1	3.4	0.1	0.3	*	*	0.7	0.7	9.8	4.4
Base Operating Support	6.5	15.7	6.7	6.2	2.9	1.7	8.6	6.1	24.7	29.7
Management Headquarters	<u>0.5</u>	<u>0.6</u>	<u>0.3</u>	<u>0.3</u>	<u>*</u>	<u>*</u>	<u>0.7</u>	<u>0.4</u>	<u>1.4</u>	<u>1.4</u>
TOTALa/	43.9	26.7	35.0	9.8	13.4	2.0	23.8	11.7	116.0	50.2

FY 1993

	<u>Army</u>		<u>Navy</u>		<u>Marine Corps</u>		<u>Air Force</u>		<u>DoD</u>	
	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>	<u>Mil</u>	<u>Civ</u>
Recruit Officer	2.9	0.1	1.2	*	2.3	*	0.4	*	6.9	0.1
Acquisition	0.8	0.8	0.8	.9	0.3	*	1.0	0.8	2.9	2.4
Specialized Skill	14.7	4.3	18.1	0.7	6.4	0.2	6.7	2.2	45.8	7.5
Flight Professional	1.0	.3	5.9	0.4	1.0	*	3.3	.9	11.3	1.5
Development One-Station	0.6	0.7	0.5	.9	0.3	0.1	1.1	0.5	2.5	2.2
Unit Training	4.3	0.2	*	*	*	*	*	*	4.3	0.2
Medical Training	2.2	0.5	1.0	0.1	*	*	1.0	0.1	4.2	0.8
Direct Training										
Support	7.4	3.1	0.1	0.3	*	*	0.7	0.7	8.1	4.1
Base Operating										
Support	6.4	14.8	6.3	6.4	2.9	1.7	6.6	6.0	22.1	28.9
Management										
Headquarters	<u>0.5</u>	<u>0.7</u>	<u>0.3</u>	<u>0.3</u>	<u>*</u>	<u>*</u>	<u>0.6</u>	<u>0.4</u>	<u>1.3</u>	<u>1.4</u>
TOTAL <sub>a/</sub>	40.8	25.7	34.2	9.9	13.1	2.0	21.3	11.6	109.4	49.2

a/ The Service estimates of training attributable manpower include some staff and support manpower that does not contribute directly to the production of student output and loads but are reported as training resources in the Defense Program (FYDP) because they belong to larger organizations with a primary training mission.  
\*Less than 50.

Manpower data in the six categories of training (i.e., Recruit through One-Station Unit Training) includes instructors, school/ training center staffs and student supervisors. Direct training support includes such tasks as training aids and literature, audiovisual resources, and instructional systems development.

The Services have estimated for FY 1992 and 1993 how much of the manpower reported in Program 8 of the FYDP is not attributable to individual training and how much non-Program 8 manpower supports individual training. Within Program 8, the Army reported that 37,747 military and 16,046 civilian in FY 92 and 34,695 military and 16,646 civilian in FY 93 supported training related activities other than individual training and could be subtracted from their totals in Table VIII-9 to provide a more representative estimate of their manpower dedicated to accomplishing their FY 92 and FY 93 workload. The Navy reported adjustments that would subtract 6,288 military and 6,239 civilian from FY 92 and 5,929 military and 6,453 civilians from FY 93 manpower figures. The Marine Corps reported adjustments that would add 989 military and subtract 1,116 from their FY 92 totals and add 986 military and subtract 1,116 civilians from their FY 93 manpower totals. The Air Force reported adjustments that would subtract 292 military and 187 civilians in FY 92 and 292 military and 187 civilians from their FY 93 figures.

## IX

### TRAINING MANAGEMENT AND FUNDING

#### General Description

Chapters III through VII of this report describe and explain the military training student loads requested to be authorized for each military component. These student loads represent patterns and levels of training effort which require manpower and other resources. The purpose of this chapter is to describe and explain the resources (other than manpower, which is discussed in Chapter VIII), funding and costs associated with the conduct of individual training.

In considering training resources, it is important to distinguish between the training loads required by a Service but conducted in part outside the Service, and the workloads representing training conducted by the Service. As discussed in the previous chapter, the workloads, which represent training conducted by a Service, are the basis for resource requirements (manpower, materiel, facilities, and funds) needed to conduct and support the training that the Service executes.

#### Management of Individual Training

Detailed management of individual training is carried out by the four Military Services. Each of the Services, except the Marine Corps, has a training commander immediately subordinate to the Service chief who is responsible for most of the individual training conducted within that Service. Some training is managed directly by the Service headquarters. However, the most prevalent pattern of control is through a training command headquarters that manages most Service military schools, training centers, and other training facilities.

#### Staff Responsibilities

Within the Office of the Secretary of Defense, staff responsibility for individual training and education policies rests with the Assistant Secretary of Defense (Force Management and Personnel), with a strong influence over the allocation and use of resources being exercised by the Assistant Secretary of Defense (Comptroller). The staffs of these two offices work closely together in the staff supervision of DoD individual training and education. Other OSD offices, such as Health Affairs, Reserve Affairs, and Command, Control and Communications Intelligence (C3I), participate as appropriate. The OSD role is generally one of policy formulation, allocation of resources, overview of Service training programs, and coordination among the Services.

Within each Service headquarters, with exception of the Marine Corps, a principal staff officer has responsibility for individual training. Other staff members may have primary responsibility for certain types of training, as, for example, a Service Surgeon General for professional medical training. Other staff members have collateral responsibilities for the allocation of manpower and funds to the training function.

Primary responsibility on the Army staff for individual training rests with the Deputy Chief of Staff for Operations and Plans and his subordinate, the Director of Training. Within the Navy, the principal staff officer is the Deputy Chief of Naval Operations for Manpower, Personnel, and Training. Within the Marine Corps, the Deputy Commander for Training and Education acts as the principal advisor to the Commandant of Marine Corps, through the Commanding General, MCCDC, Quantico, Va., for all facets of the DOD Planning, Programming, and Budgeting Systems (PPBS) where resource decisions are required to satisfy validated training requirements. Within the Air Force, the Director of Personnel Programs, under the Deputy Chief of Staff for Personnel, has staff responsibility for individual training.

### **Training Commands**

The Army, Navy, and Air Force each has a command headquarters that manages most of the individual training conducted by that Service.

The Army's principal training command headquarters is Headquarters, Training and Doctrine Command (TRADOC), located at Fort Monroe, Virginia. TRADOC's control is exercised through training installation and school commanders throughout the United States.

The Chief of Naval Education and Training, headquartered at Pensacola, Florida, exercises control, through subordinate functional commanders, of education and training conducted in training centers, schools, and programs throughout the Navy.

For the Air Force, Headquarters, Air Training Command, at Randolph Air Force Base, Texas, directly controls individual training centers and units.

For the Marine Corps, the Deputy Commander for Training and Education, Quantico, Va. also functions as the Commander, Marine Corps Schools and exercises command, operational control, technical direction, and/or coordination for all Marine Corps formal schools and training centers.

The Service-wide training commands are not responsible for all individual training and education conducted. As already noted, the Surgeons General are responsible for most health professional and medical technical training. Other examples include the Service Academies, which are under the direct supervision of the respective Service Chiefs.

The Service Training Command Chiefs and the Marine Corps Deputy Chief of Staff for Training are also the senior members of the Inter-service Training Review Organization (ITRO). ITRO was formed in 1972 to facilitate cooperative training efforts among the Services. The committees and working groups of the Organization perform the detailed analysis which becomes the basis for decisions on the feasibility of consolidation of training courses or other cooperative arrangements. A listing of major joint training efforts is provided in Appendix B.

### **Training Facilities**

Appendix C lists the principal individual training facilities of the four Services for each of the major categories of training. Projected average training workloads and training support manpower for FY 1992/1993 are also shown for each facility listed.

## **Training Funding and Costs**

The training costs addressed in this section include funding in the President's Budget for Fiscal Year 1992 and 1993 requested for individual military training and education. Depreciation costs of training facilities and equipment are not included, although training investment costs estimated for FY 1992 and 1993, such as procurement and construction costs, are included. The report uses the data in the DoD's Five Year Defense Program (FYDP) as the basis for all estimates of the manpower and funds devoted to training and education.

The costs in this chapter include funding for military pay and allowances for both PCS and TDY/TAD students, pay and allowances of military and civilian personnel in support of training, training-related PCS costs, base operating costs in support of training, training-related operations and maintenance costs (including civilian support personnel pay and allowances), training investment costs for construction and procurement, and overhead costs for training administration and command. Certain costs for activities that are organic parts of training organizations but that support non-training missions (such as Base Operating Support for non-training activities on training bases) are also included in the costs shown in the tables in this chapter to provide comparability with the Five Year Defense Program and the President's Budget.

For a given Service, the requirement for funding for training arises from two factors: first, the need to fund the pay and allowances of its own military training student loads, regardless of where or by whom the students are trained; and, second, the need to provide for the level of individual training and education effort necessary to meet the Service's commitments to accomplish training for its own and other students.

For comparability, the funding requests associated with ROTC and other non-load training programs are deleted from the following tables. Hence, the tables report FY 1992 and 1993 funding estimates related to the requested FY 1992 and 1993 training loads.

Special caution should be exercised in using these costs for comparisons among Services. Differences in missions among the Services, differing operating and training conditions, and differences in the mix of Service training programs, degrade the soundness of comparisons based on aggregated data such as these.



Table IX-1 shows funding of individual training for the Army for FY 1990 through FY 1993.

TABLE IX-1.--Funding of Individual Training a/  
for the Army by Type of Training and Fiscal Year  
(\$ Millions)

	<u>FY 90</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
Recruit	357.4	360.0	343.7	329.6
Off Acquisition	130.1	133.4	139.3	138.6
Specialized Skill	1,488.6	1,493.8	1,541.9	1,474.5
Flight	349.5	362.1	423.8	404.2
Professional				
Dev Education	271.0	295.9	312.1	323.5
One-Station Unit				
Training	337.5	338.2	328.5	315.1
Medical Trng	418.6	426.8	446.9	459.9
BOS and Direct				
Trng Support	2,079.5	2,205.9	2,136.6	1,751.4
Management				
Headquarters	61.1	59.6	61.1	59.3
PCS Cost				
for Training	121.2	109.4	116.9	114.5
TDY Cost for Trng	1,690.6	1,717.7	1,850.5	1,651.3
Reserve Component				
<u>Pay &amp; Allowances</u>	<u>777.2</u>	<u>919.2</u>	<u>729.6</u>	<u>917.8</u>
Total	\$8,082.1	\$8,422.0	\$8,430.6	\$7,939.5
TDY Costs-MILPERS	537.1	546.8	609.9	615.9
O&M	1,153.5	1,171.0	1,240.6	1,035.3

a/May not add to totals due to rounding.

Funding for individual training is shown each year in Program 8 of the FYDP. Some exceptions should be noted when estimating how much of the budget is dedicated to individual training. An amount of funding related to individual training appears in other programs of the FYDP. In addition a portion of the resources under Program 8 are not directly related to individual training.

The Services sometimes include in their individual training costs certain Program 8 funds which support other training and activities in addition to individual, institutional training. These costs are related to audiovisual support, training developments, base operations, real- property maintenance, and headquarters management type activities.

Under Program 8, the Training and Doctrine Command (TRADOC) funds Army-wide requirements for audiovisual and visually based instructional materiels used for training individuals or units of the Army. Training Development activities, under TRADOC, produce resident and non-resident training programs and materiels to meet the needs of the Army in the field as well as individual training at the Training Centers and Schools. The management of HQ, TRADOC is funded by Program 8 as is the real-property maintenance (RPMA) and base operations (BASOPS) of all those posts designated as TRADOC installations.

Although TRADOC installations may have tenants from other major commands, the RPMA and BASOPS are funded in Program 8. These Program 8 costs of \$3,554 and \$3,288 Billion for FY 92 and FY 93 should be excluded to provide a more representative estimate of funding which is specifically dedicated to accomplishing FY 92 and FY 93 individual training.

Table IX-2 shows Navy funding for individual training for FY 1990 through FY 1993.

Table IX-2.--Funding of Individual Training  
for the Navy by Type of Training and Fiscal Year  
(\$ Millions)

	<u>FY 90</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
Recruit	720.0	584.3	559.4	580.9
Off Acquisition	207.4	201.8	206.3	211.3
Specialized Skill	1,931.5	1,974.2	1,958.8	2,032.6
Flight	879.5	949.8	1,172.8	1,120.7
Professional				
Dev Education	214.6	215.2	222.5	223.7
Medical Trng	225.7	221.6	222.7	232.8
BOS and Direct				
Trng Support	1,018.3	988.5	940.8	864.0
Management				
Headquarters	29.0	28.8	30.6	31.7
PCS Cost				
for Training	125.1	127.0	123.2	124.2
TDY Cost for Trng	29.8	32.3	31.5	32.1
Reserve Component				
Pay & Allowances	<u>39.8</u>	<u>36.3</u>	<u>34.6</u>	<u>35.8</u>
Total	\$5,420.6	\$5,359.8	\$5,503.2	\$5,489.3

For FY 92 and FY 93 the Navy reported \$728 Million in adjustments to the Program 8 costs shown in Table IX-2.

The Marine Corps funding for individual training for FY 1990 through FY 1993 is shown in Table IX-3. The Marine Corps reported an adjustment to Program 8 costs of \$31.7 Million and \$31.8 Million in FY 92 and FY 93, respectively as shown in Table IX-3.

Table IX-3.--Funding of Individual Training  
for the Marine Corps by Type of Training and Fiscal Year  
(\$ Millions)

	<u>FY 90</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
Recruit	278.1	260.7	279.7	275.7
Off Acquisition	20.5	21.3	21.3	21.8
Specialized Skill	554.2	563.5	606.3	604.0
Flight	62.8	64.5	63.9	66.1
Professional				
Dev Education	54.7	58.8	59.4	61.5
Medical Trng	0.0	.1	.1	.1
BOS and Direct				
Trng Support	237.9	249.3	249.9	234.2
Management				
Headquarters	.4	.4	.4	.4
PCS Cost				
for Training	45.7	46.8	51.5	50.9
TDY Cost for Trng	.6	.6	.6	.6
Reserve Component				
<u>Pay &amp; Allowances</u>	<u>65.4</u>	<u>69.5</u>	<u>63.6</u>	<u>63.5</u>
Total	\$1,320.4	\$1,335.5	\$1,396.6	\$1,378.7

The Air Force individual training costs for FY 1990 through FY 1993 are shown in Table IX-4.

TABLE IX-4.--Funding of Individual Training  
for the Air Force by Type of Training and Fiscal Year  
(\$ Millions)

	<u>FY 90</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
Recruit	153.7	134.2	126.0	131.6
Off Acquisition	150.2	161.6	155.1	159.3
Specialized Skill	745.2	694.3	702.2	726.7
Flight	874.0	891.6	910.9	926.4
Professional				
Dev Education	224.1	229.1	260.1	271.5
Medical Training	252.4	263.1	281.3	290.3
BOS and Direct				
Training Support	1,011.1	991.1	912.5	842.4
Management				
Headquarters	59.2	58.1	59.7	57.7
PCS Cost				
for Training	92.6	83.6	89.5	94.4
TDY Cost for Trng	842.1	811.5	825.0	852.2
Reserve Component				
<u>Pay &amp; Allowances</u>	<u>137.7</u>	<u>135.4</u>	<u>139.4</u>	<u>134.4</u>
Total	\$4,542.3	\$4,453.7	\$4,461.5	\$4,486.9
TDY Costs-MILPERS	83.7	76.2	71.5	74.3
O&M	758.3	735.3	753.5	777.9

The Air Force reported an adjustment to Program 8 costs of \$56.0 Million in FY 92 and FY 93.

Table IX-5 shows funding of individual training by Service and type of training for FY 1992 and 1993.

Table IX-5.--Funding of Individual Training a/  
by Service and Type of Training, FY 1992/1993

<u>FY 1992</u>	<u>(\$ Millions)</u>				
	<u>Army</u>	<u>Navy</u>	<u>USMC</u>	<u>Air Force</u>	<u>DoD</u>
Recruit	343.7	559.4	279.7	126.0	1,308.7
Off Acquisition	139.3	206.3	21.3	155.1	522.0
Specialized Skill	1,541.9	1,958.9	606.3	702.2	4,809.2
Flight	423.8	1,172.8	63.9	910.9	2,571.4
Professional					
Dev Education	312.1	222.5	59.4	260.1	854.0
One-Station Unit Trng	328.5	-	-	-	328.5
Medical Training	446.9	222.7	.1	281.3	950.9
BOS and Direct					
Training Support	2,136.6	940.8	249.9	912.5	4,239.7
Management Headquarters	61.1	30.6	0.4	59.7	151.8
PCS Cost					
for Training	116.9	123.2	51.5	89.5	381.0
TDY Cost for Trng	1,850.5	31.5	.6	825.0	2,707.6
Reserve Component					
<u>Pay &amp; Allowances</u>	<u>729.6</u>	<u>34.6</u>	<u>63.6</u>	<u>139.4</u>	<u>967.2</u>
Total	\$8,430.6	\$5,503.2	\$1,396.6	\$4,461.5	\$19,791.9
<u>FY 1993</u>					
	<u>Army</u>	<u>Navy</u>	<u>USMC</u>	<u>Air Force</u>	<u>DoD</u>
Recruit	329.6	580.9	275.8	131.6	1,317.8
Off Acquisition	138.6	211.3	21.8	159.3	531.0
Specialized Skill	1,474.5	2,032.6	604.0	726.7	4,837.8
Flight	404.2	1,120.7	66.1	926.4	2,517.4
Professional					
Dev Education	323.5	223.3	61.5	271.5	879.7
One-Station Unit Trng	315.1	-	-	-	315.1
Medical Training	459.9	232.8	.1	290.3	983.0
BOS and Direct					
Training Support	1,751.4	864.0	234.2	842.4	3,692.0
Management Headquarters	59.3	31.7	0.4	57.7	149.0
PCS Cost					
for Training	114.5	124.2	50.9	94.4	384.0
TDY Cost for Trng	1,651.3	32.1	.6	852.2	2,536.2
Reserve Component					
<u>Pay &amp; Allowances</u>	<u>917.8</u>	<u>35.8</u>	<u>63.5</u>	<u>134.4</u>	<u>1,151.5</u>
Total	\$7,939.6	\$5,489.3	\$1,378.7	\$4,486.9	\$19,294.4

Student pay and allowance totals for a Service's requested military student training load have been added to pay and allowances for the staff and support manpower for each Service's workload. This can produce significant distortions in the use of these aggregates for assessing training efficiency (e.g., in the Marine Corps, where significant loads are trained by other Services).

Appendix D shows a distribution of funds in the table above by appropriation.

Table IX-5 includes substantial segments of cost which are not normally sensitive to significant shifts (say up to fifteen percent) in training load. These include certain command, base, facility, and equipment costs. These "fixed" costs need to be considered in program and budget adjustments because, within a reasonable range of output, they remain approximately the same and do not vary as the training load varies. They change, instead, with decisions to change the manner of accomplishing training, most often through training investment decisions or base realignments.

There are often substantial year-to-year fluctuations in funding for fixed costs. These costs are termed "fixed", not because they do not change from year to year, but because their changes characteristically are not "variable" with changes in workloads from period to period. Funding of these costs reflects significant increases, however, for years in which there are major procurements of, for example, simulators, aircraft, or construction in support of training.

Thus, the proportion of total funding requested to support training differs significantly among the Services and among categories of training; the proportion in the short run, however, is seldom less than one-third of total cost. This has important implications for the extent of funding adjustments appropriate to changes in the level of activity or size of a training program. Other things equal, if training funds are to be adequate for the needs of a reduced program, they must be reduced by a smaller proportion than the program loads in order to account for fixed costs. By the same token, program increases, within reasonable capacity limits, may not require a proportional increase in total program funding.

Training costs are affected by inflation, both because of price rises for goods and services and because of the pay of the military and civilian personnel involved as students, instructors, and support. Some training program costs are strongly affected, in addition, by energy cost increases, especially in flight training.

## **APPENDIX A**

### **DETERMINING TRAINING REQUIREMENTS**

Discussions of the determination of training requirements in this report reflect a generally uniform approach. The following overview of the methodology for assessing and calculating training requirements is provided as a framework for understanding this approach. As noted, details in calculation may differ to some extent among the Services and among the training categories.

#### **Requirements**

All training is accomplished to satisfy the need for personnel with certain types and levels of skills to man the approved or projected force. The Services, over the years, have developed detailed, systematic methods of determining the manpower needed to man and support the forces. The Defense Manpower Requirements Report discusses this process. From these force requirements for manpower, the need for trained personnel with specific skills can then be derived. For example, a given force structure establishes the number of trained enlisted personnel needed. The number of authorized positions within that force structure for radar technicians establishes the basic requirement for trained personnel with that skill. This process is reiterated on a phased basis for all skills and skill levels for each Service, for both officer and enlisted skills. The total of all personnel in all skills needed to perform all the jobs in the force at a point in time represents the total requirement for trained manpower projected for that date.

#### **Inventory Projections**

The requirements identified through this process must be measured against the available assets, in terms of trained personnel on hand in each skill and skill level. From this asset base, estimates are made of how many trained personnel will be available at various points of time in the future. These estimates take into account probable rates of change to the current inventory -- through reenlistment, promotion, discharge, death, retirement, or other causes. These estimates are based on the best historical information available, tempered by judgment of how in the future personnel policies, the state of the economy, behavioral patterns, and other factors, many of them difficult to predict, will affect the probabilities that a trained individual will remain in the Service. A comparison of skill requirements and skill inventory projections, over time, establishes the extent of shortage or surplus likely to exist in each skill area by month and year. Adjusting the inventory may entail retraining personnel who are in surplus skills, but to a much greater degree, adjustment is likely to require the training of new accessions at entry level in shortage skill areas. The process places a demand on the personnel management and training establishments continually to analyze information about attrition as it occurs, by skill and skill level, in order to produce the right number of trained personnel with the proper skills needed to restore and maintain the balance of the skill inventory. The workload thus placed on the training establishment is detailed by graduates needed from courses of various lengths and is measured in terms of average student load, or "training load."

## Average Training Loads

Resources (manpower, money, and materiel) needed for any particular category of training vary with the number of students undergoing training at any given time. Facilities must be constructed and maintained to accommodate these students in training. The training establishment must maintain a sufficient staff of qualified instructors to conduct instruction for the "load" of students. Students and Trainees, as described in the "Individuals" chapter of the Defense Manpower Requirements Report, must be programmed to account for the fact that these personnel are in formal school training and are not available for duty with operational units. All of these personnel must be paid, housed, and supported. The basis for establishing these resource requirements is the "average training load."

The aggregate training load of courses of instruction within a given training category or sub-category for a given period is computed in accordance with the following formula, except as noted:

$$L = \frac{\sum_{i=1}^n \left( \frac{E_i + G_i}{2} \right) t_i}{y}$$

where L is Average Training Load,

i is a class (1,2,...n) scheduled for a training course within the training category under consideration,

E is number of expected entrants to scheduled class i,

G is number of expected graduates from scheduled class i,

t is the calendar length of the syllabus of class i, and

y is the length of a calendar year expressed in the same units as t (1 year = 12 months = 52 weeks = 365 days).

Fractions of carryover classes conducted during the year are included as though they were separate classes. However, individuals remaining in class at the end of a period are not counted as graduates, nor are individuals already in a class at the beginning of a period counted as entrants except for purposes of computing training loads for these fractions of courses.

The training load for a category or sub-category of training (e.g., Specialized Skill Training or Functional Training within that category) is the sum of the loads computed for all classes of courses within the category or sub-category.

This method of computation implies "straight-line" attrition, under an assumption that net class attrition occurs at a constant rate during a course. In the relatively few cases when attrition patterns experienced characteristically produce a significantly different distribution of attrition, the more appropriate attrition pattern is used in lieu of the term  $E + G$ .

Since attrition varies for different training programs and is not always spread uniformly throughout the length of a course of training, determining training loads becomes a complex problem in estimation. This process of estimation involves two related factors.

First, across the spectrum of training programs that are within the scope of this report, attrition varies from nearly zero to as high as 25 to 30 percent. Most officer Professional Development Education programs have practically no attrition. For FY 1992 and 1993, the Services estimate that about 10 percent of new recruits, on a DoD average basis, will not complete Recruit Training because they will be found, in the course of undergoing training, not to have the mental or physical qualifications, or the motivation, for military life. Attrition rates in Specialized Skill Training vary widely, with the longer and more demanding courses tending to have higher losses. Pilot training is near the top of the scale in attrition; the higher rate of losses is based on lack of aptitude or motivation for flying, accidents, and similar causes which are intensified in this type of training. While historical data provide a basis for projecting attrition rates for all types of training, there is a considerable possibility for error based on variance in such factors as student quality and motivation.

A second necessary step in evaluating the effect of attrition is to estimate the phasing of attrition for each training program. In some courses, attrition tends to be higher in the early stages of a course when the inept and those lacking motivation are discovered. In other courses, the bulk of attrition may occur toward the end of the course. The patterns of losses vary widely among types of training and, to the detriment of precise planning, over time. The complexities of the attrition variable make it necessary for the Services to use computer simulations in their training load calculations which take into account the rates and time-phasing of attrition.

An additional variation is introduced into the conceptual process of forecasting requirements and planning training loads as described above by the seasonal and cyclical nature of new accessions to the Services. Inputs to many of the more stable training programs -- Professional Development Education, Flight Training, the Service Academies, and the most advanced portions of Specialized Skill Training -- are readily predictable. Inputs to the training programs which are dependent on new accessions, Recruit Training and Initial Skill Training for graduates of Recruit Training, are considerably more volatile. The volume of inputs to these types of training depends on such intangibles as job opportunities in the civilian economy and the decisions of young people to enlist, delay enlisting, or not enlist. Moreover, enlistments are seasonal in nature, following a long-term pattern of "good" and "bad" recruiting months, where phased requirements may move independently of these seasonal patterns. As a result, training loads for the initial active duty training programs are generally based on a compromise involving the timing of predicted enlistments and the capacity of the training base as well as when the new personnel are needed to fill vacancies in the job structure. Most of the courses in these programs are relatively short, and program adjustments can readily be made.



## APPENDIX B

### SELECTED MAJOR COURSES/SKILL AREAS TRAINED IN OTHER SERVICES

<u>Sponsoring Service</u>	<u>Major Interservice Course/ Skill Areas</u>	<u>Other Participating Services</u>
Army	Construction Equipment Operator	Marine Corps
Army	Airborne	Navy Marine Corps Air Force
Army	Artillery	Marine Corps
Army	Armor	Marine Corps
Army	Explosive Ordnance Disposal	Navy Air Force Marine Corps
Army	Joint Tactical Communications Systems (TRI-TAC)	Navy Air Force Marine Corps
Army	Stinger/Redeye Missile	Navy Air Force Marine Corps
Army	Satellite Communication Fundamentals	Navy Air Force Marine Corps
Army	Tracked Vehicle Repair	Marine Corps Air Force
Army	Correctional Specialist	Navy
Army	Postal Operations	Navy Air Force
Army	Biomedical Equipment Special (Basic and Advanced)	Navy Coast Guard
Army	Behavioral Science Specialist	Air Force Marine Corps
Army	Medical Laboratory Specialist (Basic)	Navy Coast Guard
Army	Psychiatric Specialist	Navy
Army	Veterinary Specialist (Basic)	Air Force Marine Corps

<u>Sponsoring Service</u>	<u>Major Interservice Course/ Skill Areas</u>	<u>Other Participating Services</u>
Army	Laser Microwave Hazards	Navy Air Force
Army	Tropical Medicine	Air Force
Army	Respiratory Specialist	Navy
Army	Occupational Therapy Special	Air Force
Army	Advanced Digital Theory	Navy
Navy	Aviation Maintenance	Marine Corps
Navy	Flight Training	Marine Corps Coast Guard
Navy	Cryptologic Courses	Army Marine Corps Air Force
Navy	Diving	Army Marine Corps Air Force Coast Guard
Navy	Musician	Army Marine Corps
Navy	Explosive Ordnance Disposal	Army Marine Corps Air Force
Navy	Cryptographic Maintenance	Marine Corps Air Force Coast Guard
Navy	Teletype Maintenance	Marine Corps
Navy	Joint and Combined Planning and Operations	Army Marine Corps Air Force Coast Guard
Navy	Military Justice	Marine Corps Coast Guard
Navy	Shipboard Firefighting	Marine Corps Coast Guard
Navy	Corrosion Control	Coast Guard

<u>Sponsoring Service</u>	<u>Major Interservice Course/ Skill Areas</u>	<u>Other Participating Services</u>
Navy	Damage Control	Coast Guard
Navy	Supply Support	Marine Corps
Navy	Underwater Construction	Army
Navy	SERE, Code of Conduct	Marine Corps
Navy	Causeway Barge Ferry Train	Army
Marine Corps	Computer Systems, Program (IBM 360)	Army Air Force Navy
Marine Corps	Special Atomic Demolition Munition	Navy Army
Air Force	Navigator Training	Navy Marine Corps
Air Force	Tempest (Cryptologic Courses)	Army Navy Marine Corps
Air Force	Cryptologic Equipment Maintenance	Army Navy Marine Corps
Air Force	Precision Measurement Training	Army Marine Corps
Air Force	Aircraft Pneudraulic Repair	Army
Air Force	Weather Training	Army Navy Marine Corps
Air Force	Military Dog Handler	Army Navy Marine Corps
Air Force	Law Enforcement	Navy Marine Corps
Air Force	Fire Control Specialist	Army Marine Corps
Air Force	Nondestruct Inspection	Army Navy Marine Corps

<u>Sponsoring Service</u>	<u>Major Interservice Course/ Skill Areas</u>	<u>Other Participating Services</u>
Air Force	Defense Sensor Interpretation and Application Training	Army Navy Marine Corps
Air Force	Air Intelligence Training	Army Navy Marine Corps
Air Force	Lineman Training	Army Marine Corps
Air Force	Professional Comptroller	Army Navy Marine Corps
Air Force	Radio Communications Analysis	Army Navy Marine Corps
Air Force	Voice Processing	Army Navy Marine Corps
Air Force	Cryptoanalysis	Army Marine Corps
Air Force	Imagery Production	Marine Corps
Air Force	Composite Repair	Army Navy Marine Corps Air Force
Air Force	Graphic Specialist	Army Navy Marine Corps
Air Force	Nuclear Weapons Training	Army Navy Marine Corps
Air Force	Cable and Antenna Installation and Maintenance	Army Marine Corps

## APPENDIX C

### INDIVIDUAL TRAINING FACILITIES AT MAJOR LOCATIONS BY TRAINING CATEGORY, FY 1992/1993

#### A. Recruit Training

<u>Facility Location</u>	<u>Student Workload</u>	<u>Training Staff E/S a/</u>	
		<u>Military</u>	<u>Civilian</u>
<u>Army</u>			
Fort Dix, NJ	1,011	0	1
Fort Jackson, SC	7,019	1,210	32
Fort Knox, KY	1,724 b/	481	28
Fort Sill, OK	1,618	336	4
Fort Leonard Wood, MO	4,369	797	29
<u>Navy</u>			
Great Lakes, IL	3,989	502	7
Orlando, FL	3,436	436	0
San Diego, CA	3,657	369	12
<u>Marine Corps</u>			
Parris Island, SC	5,649	1,172	2
San Diego, CA	5,849	1,153	1
<u>Air Force</u>			
Lackland Air Force Base, TX	4,373	348	8

a/ Reflects manpower end-strength (E/S) to include instructors, school training center staffs, student supervisors. Excludes training support, Management Headquarters, and Base Operating Support.

b/ Includes ROTC Basic camp workload.

## **B. Officer Acquisition Training**

<u>Facility Location</u>	<u>Student Workload</u>	<u>Training Staff E/S a/</u> <u>Military</u>	<u>Civilian</u>
<u>Army</u>			
Fort Benning, GA	165	39	2
Fort Monmouth, NJ	9	2	0
West Point, NY	5,610	745	816
<u>Navy</u>			
Annapolis, MD	4,268	264	391
Newport, RI	388	118	13
Pensacola, FL <u>b/</u>	232	0	0
San Diego, CA	279	14	2
<u>Marine Corps</u>			
Quantico, VA	552	218	3
<u>Air Force</u>			
Colorado Springs, CO	4,612	1,021	771
Lackland Air Force Base, TX	330	74	18

a/ Reflects manpower end-strength (E/S) to include instructors, school/training center staffs, student supervisors. Excludes training support, Management Headquarters and Base Operating Support.

b/ Manpower not separately identified by training category in manpower documents.

### C. Specialized Skill Training

<u>Facility Location</u>	<u>Student Workload</u>	<u>Training Staff E/S a/</u> <u>Military</u>	<u>Civilian</u>
<u>Army</u>			
Aberdeen Proving Ground, MD	3,093	1,070	255
Fort Benning, GA	5,182	1,411	151
Fort B. Harrison, IN	2,181	515	101
Fort Bliss, TX	1,970	973	240
Fort Devens, MA	1,389	811	184
Fort Dix, NJ	486	0	0
Fort Eustis, VA	2,353	852	198
Fort Gordon, GA	6,129	1,773	458
Fort Huachuca, AZ	1,309	511	128
Fort Jackson, SC	2,574	688	61
Fort Knox, KY	2,375	1,072	257
Fort Lee, VA	4,278	795	95
Fort Leavenworth, KS	802	113	8
Fort L. Wood, MO	2,956	1,605	224
Fort McClellan, AL	862	561	97
Fort Rucker, AL	1,418	247	117
Fort Sill, OK	3,012	1,069	253
Fort Monmouth, NY	168	83	28
Monterey, CA	3,533	222	982
Redstone Arsenal, AL	1,216	973	297
MDW Wash, DC (DLI)	80	0	0
Lackland AFB, TX	0	30 <u>b/</u>	0
Brooke Army Medical Ctr	490	190	63
Other Medical Ctrs/Hosp.	34	6	1
Academy of Health Sces	61	41	0
Cadet Academy	28	6	1

a/ Reflects manpower end-strength (E/S) to include instructors, school/training center staffs, student supervisors. Excludes training support, Management Headquarters and Base Operating Support.

b/ Instructors assigned to training facilities of another Service.

### **C. Specialized Skill Training (continued)**

<u>Facility Location</u>	<u>Student Workload</u>	<u>Training Staff E/S a/</u>	
		<u>Military</u>	<u>Civilian</u>
Navy			
Athens, GA	253	61	12
Bangor, WA	467	444	26
Bethesda, MD (Medical)	224	45	0
Charleston, SC	667	932	8
Dam Neck, VA	1,837	1,294	36
Great Lakes, IL	5,822	1,540	60
Great Lakes IL (Medical)	876	143	0
Groton, CT	2,205	942	11
Groton, CT (Medical)	85	19	0
Gulfport, MS	397	146	11
Idaho Falls, ID	623	506	0
Indian Head, MD	257	99	8
Jacksonville, FL	268	253	0
Kings Bay, GA	281	474	27
Lakehurst, NJ	135	146	21
Little Creek, VA	514	175	8
Mayport, FL	205	122	2
Memphis, TN	5,191	925	168
Meridian, MS	989	122	10
Newport, RI	962	412	9
Norfolk, VA	1,694	1,278	45
Oakland, CA	44	10	8
Orlando, FL	4,828	796	16
Panama City, FL	181	194	7
Pearl Harbor, HI	273	255	7
Pensacola, FL	1,677	817	43
Pensacola, FL (Medical)	50	0	0
Philadelphia, PA	321	59	2
Port Hueneme, CA	423	155	32
Portsmouth, VA (Medical)	235	60	0
San Diego, CA	6,638	3,217	150
San Diego, CA (Medical)	817	147	0
San Francisco, CA	296	152	0
Schenectady, NY	816	643	0
Vallejo, CA	763	505	12
Windsor, CT	257	194	0
Whidbey Island, WA	162	98	2
Winter Harbor, MA	50	41	0

a/ Reflects manpower end-strength (E/S) to include instructors, school/training center staffs, student supervisors. Excludes training support, Management Headquarters and Base Operating Support.



### **C. Specialized Skill Training (continued)**

<u>Facility Location</u>	<u>Student Workload</u>	<u>Training Staff E/S a/</u>	
		<u>Military</u>	<u>Civilian</u>
<u>Marine Corps</u>			
Albany, GA	40	35	1
Camp Lejeune, NC	3,806	1,336	60
Camp Pendleton, CA	3,166	870	7
Parris Island, SC	87	17	0
Quantico, VA	1,512	957	24
San Diego, CA	232	117	0
Twentynine Palms, CA	1,201	623	101
<u>Air Force b/</u>			
Chanute Air Force c/ Base, IL	2,869	828	363
Fairchild Air Force Base, WA	152	217	27
Goodfellow Air Force Base, TX	2,107	670	116
Homestead Air Force Base, FL	27	27	8
Keesler Air Force Base, MS	3,946	1,290	635
Lackland Air Force Base, TX	1,450	650	121
Lowry Air Force Base, CO	3,058	1,026	300
Sheppard Air Force Tech Base, TX	3,288	573	371
Sheppard Air Force Med Base, TX	2,192	572	74

a/ Reflects manpower end-strength (E/S) to include instructors, school/training center staffs, student supervisors. Excludes training support, Management Headquarters and Base Operating Support.

b/ Includes Active AF, Civilian, ARF & Others; does not include field or contract training.

c/ Scheduled for Base closure in FY 1993.

### **D. Flight Training**

<u>Facility Location</u>	<u>Student Workload</u>	<u>Training Staff E/S a/ Military      Civilian</u>	
<u>Army</u>			
Fort Rucker, AL	1,558	1,050	380
<u>Navy</u>			
Chase Field, TX	160	170	81
Corpus Christi, TX	372	230	13
Kingsville, TX	160	181	55
Meridian, MS	137	123	59
Pensacola, FL	675	506	138
Whiting Field, FL	868	555	34
<u>Air Force</u>			
Columbus Air Force Base, MS	278	349	12
Fort Rucker, AL	35	11	1
Lackland Air Force Base, TX	61	15	1
Laughlin Air Force Base, TX	295	372	14
Mather Air Force Base, CA	563	387	24
Randolph Air Force Base, TX	149	207	15
Reese Air Force Base, TX	215	345	15
Sheppard Air Force Base, TX	349	267	27
Vance Air Force Base, OK	279	360	13
Williams Air Force Base, AZ	321	380	13
Fairchild, AFB	226	224	4
Homstead, AFB	23	30	0
Eielson, AFB	14	7	1

a/ Reflects manpower end-strength (E/S) to include instructors, school/training center staffs, student supervisors. Excludes training support, Management Headquarters and Base Operating Support.

## **E. Professional Development Education**

<u>Facility Location</u>	<u>Student Workload</u>	<u>Training Staff E/S a/</u>	
		<u>Military</u>	<u>Civilian</u>
<u>Army</u>			
Carlisle Barracks, PA	226	122	157
Fort Belvoir, VA	600	36 <u>b/</u>	182
Fort Bliss, TX	1,156	267	18
Fort Leavenworth, KA	1,857	390	132
Fort McNair, DC	629	94 <u>c/</u>	270
DoDCI, Navy Yard, DC	349	18 <u>d/</u>	20
<u>Navy</u>			
Monterey, CA	2,076	45	251
Newport, RI	756	89	44
Norfolk, VA	232	15	46
<u>Marine Corps</u>			
Quantico, VA	427	206	20
Camp Lejeune, NC	24	15	0
<u>Air Force</u>			
Gunter Air Force Station, AL	296	78	9
Maxwell Air Force Base, AL	1,616	636	250
Wright-Patterson Air Force Base, OH	1,328	278	294

Note 1: Status above for USAF for FY 92 reflects FINPLAN and Presidential Budget inputs.

Note 2: USAF statistics above excludes:  
AFI7- AECP-245, AFI7- Medical-463

a/ Reflects manpower end-strength (E/S) to include instructors, school/training center staffs, student supervisors. Excludes training support, Management Headquarters and Base Operating Support.

b/ 30 Army, 45 Other Services

c/ 19 Army, 29 Other Services

d/ 6 Army, 14 Other Services

**F. One-Station Unit Training (OSUT)**

<u>Facility Location</u>	<u>Student Workload</u>	<u>Training Staff E/S a/ Military</u>	<u>Civilian</u>
<u>Army</u>			
Fort Benning, GA	5,555	875	21
Fort L. Wood, MO	1,266	337	19
Fort Sill, OK	1,802	599	49
Fort McClellan, AL	2,332	580	25
Fort Knox, KY	2,083	1,112	136

a/ Reflects manpower end-strength (E/S) to include instructors, school/training center staffs, and student supervisors. Excludes training support, management headquarters, and base operating support.

## APPENDIX D

### SUMMARY OF TOTAL FUNDING FOR INDIVIDUAL TRAINING AND EDUCATION BY SERVICE AND APPROPRIATION, FY 1990-93 (\$ millions)

<u>Appropriation</u>	<u>FY 90</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
<u>Army</u>				
Operations and Maintenance	\$2,667.1	\$2,756.5	\$2,743.5	\$2,520.2
Military Personnel	4,385.0	4,466.3	4,635.6	4,390.1
Reserve Personnel	354.2	422.6	363.3	591.9
National Guard Personnel	432.7	508.4	378.0	338.1
Aircraft Procurement	38.5	36.3	96.1	38.4
Missile Procurement	.7	2.6	3.4	4.6
Procurement Weapons and Tracked Combat Vehicles	19.6	15.6	3.9	2.5
Other Procurement	65.1	34.3	53.1	53.7
<u>Military Construction</u>	<u>119.3</u>	<u>179.7</u>	<u>153.8</u>	<u>0</u>
Total Army	\$8,082.1	\$8,422.0	\$8,430.6	\$7,939.6
<u>Navy</u>				
Operations and Maintenance	\$1,419.8	\$1,410.8	\$1,359.6	\$1,322.8
Military Personnel	3,479.1	3,335.0	3,353.0	3,444.5
Reserve Personnel	133.2	82.9	85.9	89.7
Aircraft Procurement	168.7	221.5	452.6	407.3
Other Procurement	80.2	168.8	182.1	205.5
<u>Military Construction</u>	<u>139.6</u>	<u>140.7</u>	<u>69.9</u>	<u>19.6</u>
Total Navy	\$5,420.6	\$5,359.8	\$5,503.2	\$5,489.3
<u>Marine Corps</u>				
Operations and Maintenance	\$183.8	\$196.2	\$196.1	\$174.4
Military Personnel	1,059.2	1,059.1	1,125.6	1,122.5
Reserve Personnel	70.4	74.5	69.1	69.5
<u>Procurement</u>	<u>7.1</u>	<u>5.7</u>	<u>5.9</u>	<u>12.4</u>
Total Marine Corps	\$1,320.4	\$1,335.5	\$1,396.6	\$1,378.7

<u>Appropriation</u>	<u>FY 90</u>	<u>FY 91</u>	<u>FY 92</u>	<u>FY 93</u>
<u>Air Force</u>				
Operations and Maintenance	\$1,252.2	\$1,247.5	\$1,242.4	\$1,315.7
Military Personnel	2,798.4	2,698.2	2,736.5	2,769.1
Reserve Personnel	45.0	47.4	48.2	51.2
National Guard Personel	92.7	88.0	91.2	83.2
Aircraft Procurement	231.7	225.1	234.2	222.1
Other Procurement	19.7	17.5	32.9	22.3
<u>Military Construction</u>	<u>86.1</u>	<u>112.3</u>	<u>54.5</u>	<u>0</u>
Total Air Force	<u>\$4,542.3</u>	<u>\$4,453.7</u>	<u>\$4,461.5</u>	<u>\$4,486.9</u>
Total Department of Defense	\$19,365.4	\$19,570.9	\$19,791.9	\$19,294.4

Note: Totals may not add due to rounding. These totals exclude funding for individual education and training programs for which loads are not requested and for which funds were not shown in the funding tables in Chapter IX (e.g., ROTC).